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Products Catalog

FINANCIAL

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MEDICAL

RETAIL

TRANSPORTATION

2005

THE TOUCH MONITOR NEWSLETTER

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The Touch Monitor
A monthly update on Elo TouchSystems
Elo Expands Family of Touchmonitors with Surface Capacitive Touch Technology
Elo announces the addition of surface capacitive technology to the Entuitive 1525L 15" LCD desktop and 1547L 15" LCD chassis models. The addition of surface capacitive technology to Elo's extensive touchmonitor family firmly positions Elo as the leading single-source solution provider for both touchmonitors and touch technologies: CarrollTouch infrared; IntelliTouch, SecureTouch, and iTouch surface wave; AccuTouch five-wire and AT4 four-wire resistive; and DirectTouch and ThruTouch projected capacitive. Importantly, customers can now select from one touchmonitor manufacturer the most appropriate touch technology for their application and environment. Elo's 1525L and 1547L touchmonitors with surface capacitive touch technology are ideal for use in the retail markets for point-of-sale (POS) and kiosk-based applications as well as in the entertainment/gaming market.
Elo Offers New Product Overview Brochure
Elo's new Product Overview brochure (187K PDF) offers LCD and CRT touchmonitors and touchcomputers in a wide variety of form factors offering the broadest selection. Elo provides eight touch technologies ready to go to work in virtually any application. The overview brochure is available online for download or you can receive a printed copy by mail simply by sending an e-mail request to elomfg@elotouch.com.
Elo Contributes to Casino Enterprise Management's 2005 Gaming Industry Forecast
According to Casino Enterprise Management's 2005 Gaming Industry Forecast (January 2005 issue), technology will play an important role in the shape of the industry in 2005. Mike Sigona, Elo's market manager, contributed his opinion on the shape of things to come. Sigona anticipates a continued increase in the use of touch technology, not just in the games themselves, but also throughout the casino.
Upcoming Events

The Touch Monitor is a monthly electronic newsletter that keeps you informed of the latest product announcements, driver updates, technology briefs, case studies, and services from Elo TouchSystems.

As a subscriber, you'll receive The Touch Monitor each month, delivered directly to your email Inbox. Depending upon the capabilities of your e-mail application, you will receive The Touch Monitor in either text or HTML format. The HTML format takes full advantage of the Web, providing hyperlinks to articles and associated items, as well as attractive, complementary images of products and services.

If you are not receiving The Touch Monitor right now, you can subscribe to this newsletter online at http://www.elotouch.com/forms/company/enews.asp.

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2005

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Benefits of Touch Interface

Many years ago, touchscreens were an exotic, expensive interface for demanding applications like air-traffic and nuclear power-plant control. Not anymore! Companies across a broad spectrum of industries have successfully harnessed the power of touch for a wide variety of applications. Yet the essential benefits provided by touch technology remain unchanged.

Fast, faster, fastest

Touchscreens provide fast access to any and all types of digital media, with no text-bound interface getting in the way. It takes time for the user to grab a mouse or use a keyboard or trackball and coordinate it with what needs to be activated on the display. Faster input can mean better customer service in restaurants, hotels, movie theaters, and retail stores, which results in increased customer loyalty. In other cases, such as in-vehicle control or security equipment, being even one second faster can make all the difference.

Touch makes everyone an expert

Reaching out for what you want is an instinctive gesture. Using touch is just as simple: you simply point at what you want. Although some people still shy away from computer keyboards, mice, or trackballs, there is no hesitation when they can just touch a screen. Users feel comfortable that they cannot "do anything wrong"; they instinctively understand how to use the interface. Touchscreen systems make everyone an "expert user" from the first touch—whether it's a person consulting a kiosk, a worker controlling an industrial process, a nurse entering a patient's information, or a waiter entering an order.

Reduced costs

Using a touch interface can effectively increase operator accuracy, reduce training time, and improve overall operational efficiencies, thus keeping costs down. In the retail environment, for example, a properly designed touch interface can improve each operator's accuracy, while maintaining optimum checkout speeds. Users can respond quickly without making significant errors. Also, touch-based point-of-sale (POS) systems streamline the returns and refunds process by reducing the time it takes a customer to return merchandise; they also improve loss-prevention management. In addition, compared to traditional training methods, using touchscreens can drastically reduce training time, since touch technology is intuitive and requires no special skills to learn. Moreover, the flexibility of touch technology can significantly contribute to cost reductions: it creates operational efficiencies by simplifying procedures and reduces the need for additional capital investment.

Compact and handy

Space is valuable, so you want to use it as efficiently as possible. Touchmonitors ensure that no space—on the desktop or elsewhere—is wasted, since the input device is completely integrated into the display. Flat LCD touchmonitors help save even more space. And there are no keyboard or mouse cords in front of the monitor to get tangled or damaged, or to gather dust.

Durable and easy to clean

A touchscreen is made of glass or a similar hard-coated surface. So it's easy to clean and therefore extremely well suited for the typical environments found in restaurants, hospitals, and the food and pharmaceutical industries. All of Elo's touchscreens can be used with gloves, which is great for applications where hygiene is particularly important or where temperature or workplace safety rules require the use of gloves. We offer touchscreen systems that are not affected by dirt, dust, grease, or liquid droplets. They are even rugged enough to stand up to harsh environments where keyboards and mice often get damaged.

When ease of use is required

Touchscreen-based systems virtually eliminate errors because users select from clearly defined menus. The information on each screen is limited in number and options, thus providing step-by-step, fail-safe sequences to guide the user through complex procedures. This greatly simplifies medical diagnostics applications—for example, where voluminous databases must be accessed quickly and easily. Touchscreens are also useful in simplifying process-control applications involving many buttons or switches, and for applications where system contents require protection from unauthorized entry.

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Touch Is Used in Hundreds of Applications

point of sale

interactive payphones

industrial process control

transaction kiosks

loyalty systems

ticket sales

multimedia marketing

Touch input displays can be used for virtually any application. Common touchscreen applications include the following:

- Point-of-sale terminals
- Point-of-information kiosks
- In-store e-commerce
- Multimedia marketing
- ATMs
- Electronic catalogs
- Banking/financial transactions
- Industrial machine control
- Medical equipment
- Office automation
- Computer-based training
- Gaming, lottery, and amusement
- Ticket sales
- Interactive payphones
- In-vehicle and in-flight applications
- Handheld computers

car diagnostic systems

electronic voting

home control

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Ten Tips for Developing Effective Touch Applications

Ten simple pointers that can make the difference between success and failure for your touch-activated application.

1 **Run your application full screen.** Remove title bars and menu bars so your application can take full advantage of the entire display area.

2 **Use bright background colors (not black).** Bright backgrounds in your application will hide fingerprints and reduce glare. Dithering or other patterned backgrounds (for example, the "crumpled paper" look) help the eye focus on the screen image instead of reflections, even in areas where there are no icons or menu choices.

3 **Use a simple point-and-click interface with large buttons.** Dragging, double-clicks, scroll bars, drop-down menus, multiple windows, or other elements can confuse the typical user and detract from user-friendliness and efficiency.

4 **Turn the cursor off so your user will focus on the entire screen instead of the arrow.** A cursor on the screen makes the user think, "How do I get the arrow to do what I want?" Remove the cursor, and the user's thinking and actions become direct instead of indirect—thereby unlocking the true power of touchscreens.

5 **Always give your users feedback as soon as they touch the screen.** Immediate feedback is critical to reassure the user that a touch has registered. Responses can be visual, as 3-D button effects similar to those found on a standard Windows button. Or you can provide an audio response, such as a "click" or other sound output whenever a user touches the screen.

6 **Make your application fun and fast.** Users will walk away from a sluggish system. You can keep their attention with a quick response to touches. Speedy systems also reduce vandalism. Avoid graphics modes offering excessive colors or high resolution—these will only slow down your system.

7 **Make the application intuitive, limit choices, and guide the user as much as possible.** Test your application with users. If they pause in confusion—even for a moment—you've identified an area that needs improvement.

8 **Digitized speech can talk users through your application.** Because the human brain can simultaneously process a voice and absorb an image, there is something almost magical about a user interface that provides voice prompts and touch response. The better kiosk applications exploit this knowledge for maximum effect. For example: "Touch the first letter of the company you are looking for." Click. "Now touch OK." Click.

9 **Make your application part of an attractive package.** Animation and large fonts help attract users to kiosk applications. The actual design of the kiosk cabinet should also be attractive and sturdy.

10 **Keep the following in mind when designing a kiosk cabinet.** Are you using forced-air ventilation? Put your fan at the top, near the monitor's vents. To minimize airborne dust from footsteps, keep the intake away from the floor. Keep air from entering around the monitor's face. Point your speakers in the direction of your user's ears. Use an Elo Entuitive kiosk touchmonitor—otherwise, allow for variations in the physical dimensions of monitor models, as they change frequently. Finally, choose a kiosk finish that does not show fingerprints—avoid polished stainless steel, chrome, or glossy black paint.

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Why an Elo Entuitive Touchmonitor?

Buying an Elo Entuitive touchmonitor is the surest, fastest way to get your touchscreen application up and running and make sure it stays that way for a long time. Because standard desktop monitor models change frequently—and are seldom designed with touch in mind—it's difficult for typical providers of touchmonitors based on office desktop displays to ensure reliability under the heavy usage experienced by the most successful touch-based systems.

Elo's Entuitive line of touchmonitors gives you the advantage of over 30 years of experience in touchmonitor design. We continuously listen to our customers' demands for better touch solutions, and we've implemented these needs into our newest line of touchmonitors—which can truly be called "designed for touch." In the new Entuitive line, Elo has applied its extensive knowledge of touch technologies, CRTs, and LCDs to the design and manufacture of consistently high-quality, reliable touchmonitors with full agency approvals and Elo's renowned service and support.

Elo has it all.
Elo Entuitive touchmonitors allow you to source a complete touch hardware solution from one vendor rather than three (touchscreen kit, monitor, integration service). So Elo Entuitive touchmonitors save you both time and a potentially high investment in monitor integration (capital equipment, supplies, facilities, expertise, and personnel).

You get a touchmonitor designed for touch.
Not all touchmonitors are created alike. Elo sets monitor specifications that enable the production of high-quality, low-cost monitors optimized for touch. Elo can also provide custom modification, incorporating a variety of cabling, sealing, packaging, and other options, so your touchmonitor is perfectly suited to your application.

Off-the-shelf touchmonitors get you up and running quickly.
Elo and its distribution partners can offer you touchmonitors that are ready to use, right out of the box. Elo's Entuitive touchmonitors for kiosk and industrial applications have fixed outside dimensions. Elo will maintain the model design of its metal-chassis touchmonitors much longer than the average plastic-case monitor manufacturer, thus reducing the need to redesign your application around a monitor component change.

You avoid safety risks to yourself or your monitor.
Everyone knows to avoid electrical shock from high-voltage components inside the monitor, but did you know that it's possible to shorten the life of your monitor if the power tap is installed incorrectly? Or that if a touchscreen is poorly sealed to the monitor interface, it will allow dust to degrade the optics of your touchscreen? With an Elo Entuitive touchmonitor you get assurance of lasting quality and safety.

UNIVERSAL SERIAL BUS

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Tested To Comply With FCC Standards

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Why an Elo Entuitive Touchmonitor?

Elo provides ruggedized packaging.
To ensure that the touchmonitor makes it to you—and on to your customer—Elo takes special care in securing touch components inside the monitor and using packaging that withstands all industry-standard drop tests. Shipment of each box includes a force indicator that warns if excessive force and possible damage occurred during shipping.

You have all the information you need.
Elo Entuitive touchmonitors ship with an Elo TouchTools CD, which contains drivers for all popular operating systems, technical manuals, and diagnostic software. Drivers, technical information, and product specs are also available 24 hours a day on our Web site, www.elotouch.com.

Elo Entuitive touchmonitors come with agency approvals.
Elo's standard touchmonitors are recertified after the addition of touch components (FCC, CE, TÜV, UL, cUL) for ease in certifying your end system. In fact, Elo's standard CRT touchmonitors contain all best-practice recognized features, such as digital on-screen display (OSD) controls; power management (EPA/ENERGY STAR®, VESA/DPMS); and Plug and Play compatibility (VESA DDC1 and 2B compliant).

Technical support.
Elo's technical support and application engineering staff bring a wealth of experience to the development and deployment of touch-based systems. With resources throughout the United States, Europe, and Asia, Elo can provide technical support and application engineering assistance almost anywhere in the world—on site if necessary—including guidance in the advanced setup and configuration of Elo software drivers for special needs. Elo offers a variety of online resources to help customers and developers troubleshoot problems. These resources include "Web Tech," which provides step-by-step troubleshooting and online diagnostic tools; "TouchTools Software," offering a complete line of software drivers and development tools for all popular operating environments; and downloadable product manuals and literature.

Manufacturer's warranty.
Without the agreement of the monitor manufacturer, a monitor's warranty is voided as soon as the monitor is opened. When you purchase Elo touchmonitors, Elo guarantees full customer satisfaction. Every Elo touchmonitor, the world over, comes with Elo's quality service. Elo also offers out-of-warranty repair services for your convenience.

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Elo strives to understand the unique requirements of our customers. For over a decade, Elo has delivered the highest quality value-added solutions around the world.

We call this our 3D Process: Discuss, Design, Deliver. It's specifically engineered to ensure you get the exact product you want.

Discuss, Design, Deliver

Value-Added Solutions to Meet Your Needs

Elo's 3D Process

There are occasions when a customer requirement falls outside of our standard product range. Elo's 3D Process can meet those needs. Our goal is to provide a perfect custom product at a standard product value.

Discuss

When an Elo standard product does not meet your needs, your Elo sales contact will direct you to Elo's Design team (or you can call them directly). We will work with you to understand your requirements and discuss possible solutions that will meet them. We think you will be surprised at how easy, fast, and cost-effective the process can be.

Design

Based on your application requirements and our knowledge of the touch and display industries, we work quickly to develop a specification for your approval. Our in-house electrical, mechanical, and compliance capabilities enable us to create a prototype to match your requirements. Elo often delivers prototype products in the same amount of time that it takes others to deliver a standard product.

Deliver

For big or small products, Elo has the flexibility and expertise to manufacture and deliver the product you want, when you want it. At Elo we understand that the perfect design doesn't stop when product engineering is over. The delivery must be perfect as well. Our manufacturing and packaging process allows us to get it right every time. We can do special packaging, labeling, drop shipments, Kan Ban deliveries, and more. Just tell us how you would like it packaged and delivered.

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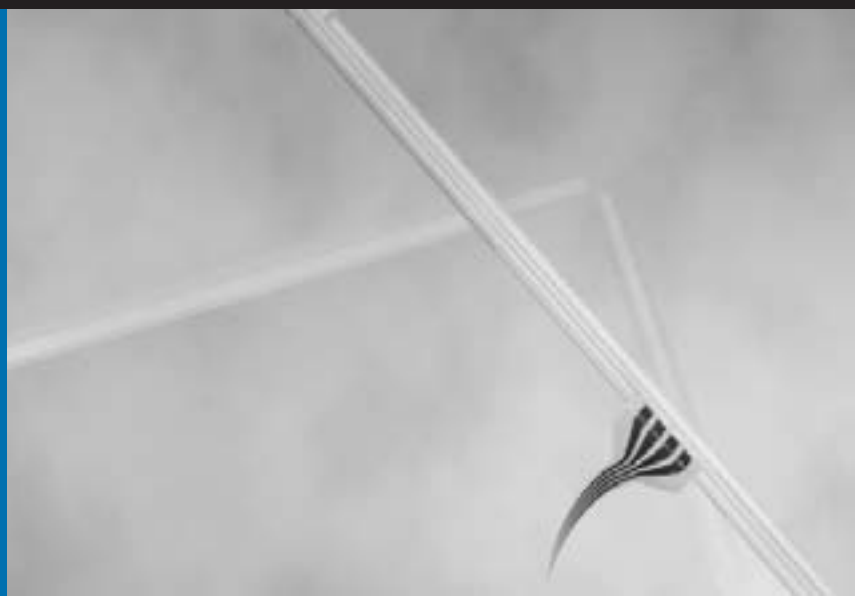
AT4 Four-Wire Resistive
For Small Form Factor Applications

BENEFITS:

- Cost-effective
- Low power consumption
- Narrow border width
- Broad input flexibility
- Backed by Elo



Elo's AT4 four-wire resistive touchscreens are the cost-effective touch solution for small form factor applications while providing reliability, low power consumption, and narrow border width. The AT4 touchscreens enable broad input flexibility, with finger, gloved hand, or stylus activation, and it's the ideal touch solution for portable devices, office automation, light industrial automation, medical equipment, and consumer products.

APPLICATIONS:

- Portable devices
- Office automation
- Light industrial automation
- Medical equipment
- Consumer products

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AT4 FOUR-WIRE RESISTIVE

COACh IIs controller chip

MECHANICAL	
Input Method	Finger, gloved hand, or stylus activation
Available Sizes	5.7" to 10.4"; visit our Web site for full specifications and other offerings
ELECTRICAL	
Positional Accuracy	1.5% or less
Resolution	Touchpoint density is based on controller resolution of 4096 x 4096
Touch Activation Force	Typically less than 4.5 ounces (130 grams)
Controller	Board: Serial (RS232) Chip: Serial (RS232)
OPTICAL	
Light Transmission	78% or more
ENVIRONMENTAL	
Temperature	Operating: 0°C to 50°C Storage: –20°C to 70°C
Agency Approvals	UL, TÜV
Sealability	Can be sealed to meet NEMA 4 and 12 and IP65 standards
DURABILITY	
Surface Durability	3H per JIS K5400
Expected Life	Operationally tested to 1 million touches in one location without failure
Warranty	Touchscreen: 1-year limited warranty Controller: 5-year limited warranty

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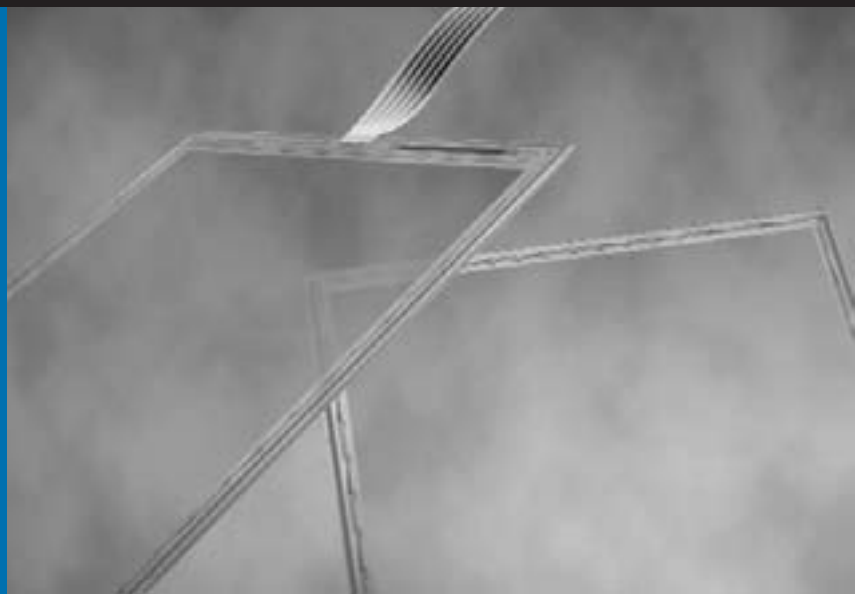
AccuTouch: Five-Wire Resistive
For Human-Machine Interface

BENEFITS:

- Stable, drift-free operation
- Broad input flexibility
- Contamination resistance
- Accuracy in high-use applications
- Long product life
- Meets NEMA 4/4x/12 and IP65 standards



Elo's AccuTouch touchscreens, the proven market leader in five-wire resistive technology, are the preferred solution for applications that demand reliability, input flexibility, and contamination resistance. AccuTouch touchscreens, with their patented technology, deliver a touch response that is drift-free and accurate in high-use applications. Compare the five-wire design of AccuTouch, in which both X and Y measurements are made on the stable rear glass layer with other resistive technology designs, in which the flexing plastic coversheet is used to measure one axis. AccuTouch touchscreens provide a longer product life, backed by a five-year warranty—withstanding more than 35 million touches—compared with the one-year warranty typical with four- and eight-wire manufacturers. AccuTouch touchscreens can be sealed against contamination and certified to meet NEMA 4/4X/12 and IP65 standards. AccuTouch touchscreens are the ideal solution for POS, voting machines, industrial automation, medical equipment, retail, office, and pharmacy automation.

APPLICATIONS:

- Point-of-sale (POS) terminals
- Voting machines
- Industrial automation
- Medical equipment
- Office automation
- Retail automation
- Pharmacy automation

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ACCUTOUCH FIVE-WIRE RESISTIVE

2210 serial controller board

3000U USB controller board

COACh IIs controller chip

Z-border pattern for enhanced linearity

MECHANICAL	
Input Method	Finger, gloved hand, or stylus activation
Available Sizes	6.4" to 21.3"; visit our Web site for full specifications and other offerings
ELECTRICAL	
Positional Accuracy	Standard deviation error is less than 0.080 (2 mm)
Resolution	Touchpoint density is based on controller resolution of 4096 x 4096
Touch Activation Force	Typically less than 4 ounces (113 grams)
Controller	Board: Serial (RS232) or USB 1.1 Chip: Serial (RS232)
OPTICAL	
Light Transmission	HL products: 80% +/–5% at 550 nm wavelength Enhanced products: 60% +/–5% at 550 nm wavelength
ENVIRONMENTAL	
Temperature	Operating: –10°C to 50°C Storage: –40°C to 71°C
Relative Humidity	Operating: 90% RH at max 35°C Storage: 90% RH at max 35°C for 240 hours, noncondensing
Altitude	Operating: 10,000 ft (3,048 m) Storage/transport: 50,000 ft (15,240 m)
Chemical Resistance	Industrial chemicals: acetone, methylene chloride, methyl ethyl ketone, isopropyl alcohol, hexane, turpentine, mineral spirits, unleaded gasoline, diesel fuel, motor oil, transmission fluid, antifreeze. Food-service chemicals: vinegar, coffee, tea, grease, cooking oil, and salt, plus most commercial cleaners, including ammonia-based glass cleaner and laundry detergent.
Electrostatic Protection	Per EN 61000-4-2, 1995: Withstands 20 discharges up to 15 kV
Agency Approvals	UL, cUL, TÜV, CE, FCC Class A
Sealability	Can be sealed to meet NEMA 4 and 12 and IP65 standards
DURABILITY	
Surface Durability	3H per ASTM D3363
Expected Life	Operationally tested to 35 million touches in one location without failure
Warranty	Touchscreen: 5-year limited warranty Controller: 5-year limited warranty

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IntelliTouch Surface Wave
For High-Use Applications

BENEFITS:

- Pure glass construction delivers the ultimate in image quality
- Stable, drift-free operation
- Continues to work even if scratched
- 10-year limited warranty

Elo's IntelliTouch touchscreens, utilizing patented flat profile surface-wave technology, are the picture-perfect, precision touch solution for high-use applications. The new flat profile technology has tiny transducers on the back of the touchscreen glass, eliminating the bumps on the front surface for a flatter integration solution. With the longest touchscreen warranty available, the IntelliTouch touchscreens are the preferred solution for applications requiring unsurpassed performance, reliability, and clarity. Their durable, pure-glass construction delivers the ultimate in image clarity and light transmission, preserves color purity, and works even if scratched. With their stable, drift-free operation, the IntelliTouch touchscreens guarantee a touch response that is on target. The IntelliTouch touchscreens are the ideal solution for kiosks, ticketing machines, gaming machines, light industrial, and office automation.

APPLICATIONS:

- Kiosks
- Ticketing machines
- Gaming machines
- Light industrial
- Office automation

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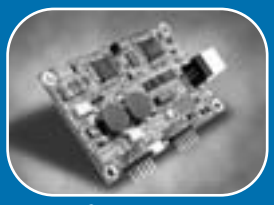
INTELLITOUCH SURFACE WAVE

Flat profile cable

2500S serial controller board



2500U USB controller board

MECHANICAL	
Input Method	Finger or gloved hand (cloth, leather, or rubber) activation
Available Sizes*	10.4" to 30"; visit our Web site for full specifications and other offerings
ELECTRICAL	
Positional Accuracy	Standard deviation error is less than 0.080 (2 mm)
Resolution	Touchpoint density is based on controller resolution of 4096 x 4096, plus 255 levels corresponding to touch pressure
Touch Activation Force	Typically 2 to 3 ounces (55 to 85 grams)
Controller	Board: Serial (RS232) or USB 1.1
OPTICAL	
Light Transmission	Up to 90% per ASTM D1003-92
ENVIRONMENTAL	
Temperature	Operating: –20°C to 50°C Storage: –40°C to 71°C
Relative Humidity	Operating: 40°C at 90% RH, noncondensing
Altitude	Operating: 10,000 ft (3,048 m) Storage/transport: 50,000 ft (15,240 m)
Chemical Resistance	The touch active area of the touchscreen is resistant to chemicals that do not affect glass, such as: acetone, toluene, methyl ethyl ketone, isopropyl alcohol, methyl alcohol, ethyl acetate, ammonia-based glass cleaners, gasoline, kerosene, vinegar.
Electrostatic Protection	Per EN 61000-4-2, 1995: Meets Level 4 (15 kV air/8 kV contact discharges)
Agency Approvals	UL, cUL, TÜV, CE, FCC Class A
Sealability	Can be sealed to meet NEMA 3/3R/5/12/12K/13, IP64 standards
DURABILITY	
Surface Durability	Surface durability is that of glass, Mohs' hardness rating of 7
Expected Life	No known wear-out mechanism, as there are no layers, coatings, or moving parts. IntelliTouch technology has been operationally tested to more than 50 million touches in one location without failure, using a stylus similar to a finger.
Warranty	Touchscreen: 10-year limited warranty Controller: 5-year limited warranty

*Available in most standard sizes. For some sizes, transducers are located on a beveled edge or the front of the glass. See the touchscreen component drawing for details.

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SecureTouch Surface Wave
For High-Threat Indoor Environments

BENEFITS:

- High impact resistance
- Continues to work even if scratched
- Stable, drift-free operation
- 10-year limited warranty

Elo's SecureTouch touchscreens are the preferred touch solution for high-threat environments and indoor applications demanding rugged durability. SecureTouch touchscreens deliver high impact resistance; the durable screen comes in fully tempered, heat or chemically strengthened glass that continues to work even if scratched. With their stable, drift-free operation, the SecureTouch touchscreens are well suited for high usage environments and provides a touch response that is accurate. SecureTouch touchscreens are the ideal touch solution for kiosks in high-threat indoor environments, ticketing machines, interactive pay phones, and gaming machines.

APPLICATIONS:

- Kiosks in high-threat environments
- Ticketing machines
- Interactive pay phones
- Gaming machines

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SECURETOUCH SURFACE WAVE

2500S serial controller board

2500U USB controller board

MECHANICAL	
Input Method	Finger or gloved hand (cloth, leather, or rubber) activation
Available Sizes	10.4" to 21"; visit our Web site for full specifications and other offerings
ELECTRICAL	
Positional Accuracy	Standard deviation of error is less than 0.080 in. (2 mm)
Resolution	Touchpoint density is based on controller resolution of 4096 x 4096, plus 255 levels corresponding to touch pressure
Touch Activation Force	Typically 2 to 3 ounces (55 to 85 grams)
Controller	Board: Serial (RS232) or USB 1.1
OPTICAL	
Light Transmission	Up to 90% per ASTM D1003-9
ENVIRONMENTAL	
Temperature	Operating: –20°C to 50°C Storage/transport: –40°C to 71°C
Relative Humidity	Operating: 40°C at 90% RH, noncondensing
Altitude	Operating: 10,000 ft (3,048 m) Storage/transport: 50,000 ft (15,240 m)
Chemical Resistance	The touch active area of the touchscreen is resistant to chemicals that do not affect glass, such as: acetone, toluene, methyl ethyl ketone, isopropyl alcohol, methyl alcohol, ethyl acetate, ammonia-based glass cleaners, gasoline, kerosene, vinegar.
Electrostatic Protection	Per EN 6100-4-2, 1995: Meets Level 4 (15 kV air/8 kV contact discharges)
Agency Approvals	UL, cUL, TÜV, CE, FCC Class A
Sealability	Can be sealed to meet NEMA 3/3R/5/12/12K/13, IP64 standards
DURABILITY	
Surface Durability	Surface durability is that of glass, Mohs' hardness rating of 7
Expected Life	No known wear-out mechanism, as there are no layers, coatings, or moving parts. SecureTouch technology has been operationally tested to more than 50 million touches in one location without failure, using a stylus similar to a finger.
Impact Resistance	Meets UL-60950 and CSA 22.2 No. 60950 ball drop test (0.5 kg, 50 mm diameter ball dropped from height of 1.3 m)
Warranty	Touchscreen: 10-year limited warranty Controller: 5-year limited warranty

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iTouch Surface Wave

The Ultimate Touch Technology for CRTs

BENEFITS:

- No overlay—touch the tube directly!
- Preserves 100% of the original image quality
- Up to 20% brighter and 80% less reflection
- No overlay to break
- Continues to work even if scratched

Elo's iTouch touchmonitors, utilizing patented touch-on-tube surface-wave technology, are the ultimate, picture-perfect touch solution for applications that demand high image quality. Touches are sensed through surface waves on the CRT faceplate itself. By completely eliminating the touchscreen overlay, Elo preserves 100% of the original picture quality, including clarity, colors, and brightness, and reflections are reduced by up to 80% compared with a traditional touchscreen overlay. With its super-sensitive, stable, drift-free operation and no parallax, Elo's iTouch touchmonitors guarantee a touch response that is on target. CRT touchmonitors with iTouch are available from Elo in desktop and open or closed frame chassis configuration from 15" to 21".

APPLICATIONS:

- Kiosks
- Gaming and amusement
- Digital photo print stations
- Medical imaging
- Light industrial

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iTOUCH
SURFACE WAVE

Touch the iTouch tube directly—no touchscreen overlay needed

MECHANICAL	
Input Method	Finger or gloved hand (cloth, leather, or rubber) activation
Available Sizes	15" to 21"; visit our Web site for full specifications and other offerings
ELECTRICAL	
Positional Accuracy	Standard deviation of error is less than 0.080 in. (2 mm)
Resolution	Touchpoint density is based on controller resolution of 4096 x 4096, plus 255 levels corresponding to touch pressure
Touch Activation Force	Typically 2 to 3 ounces (55 to 85 grams)
Controller	Board: Serial (RS232) or USB 1.1
OPTICAL	
Light Transmission	100%
ENVIRONMENTAL	
Temperature	Operating: –20°C to 50°C Storage: –40°C to 71°C
Relative Humidity	Operating: 40°C at 90% RH, noncondensing
Altitude	Operating: 10,000 ft (3,048 m) Storage/transport: 50,000 ft (15,240 m)
Chemical Resistance	The touch active area of the touchmonitor is resistant to chemicals that do not affect glass, such as: acetone, toluene, methyl ethyl ketone, isopropyl alcohol, methyl alcohol, ethyl acetate, ammonia-based glass cleaners, gasoline, kerosene, vinegar
Electrostatic Protection	Per EN 61000-4-2, 1995: Meets Level 4 (15 kV air/8 kV contact discharges)
Agency Approvals	UL, cUL, TÜV, CE, FCC Class A
Sealability	Can be sealed to meet NEMA 3/3R/5/12/12K/13, IP64 standards; Elo kiosk and gaming iTouch monitors include a watertight seal.
DURABILITY	
Surface Durability	Surface durability is that of glass, Mohs' hardness rating of 7
Expected Life	No known wear-out mechanism, as there are no layers, coatings, or moving parts. iTouch technology has been operationally tested to more than 50 million touches in one location without failure, using a stylus similar to a finger.
Warranty	See monitor warranty

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Projected Capacitive
For Outdoor and Through-Glass Applications

BENEFITS:

- Works outdoors—in rain, snow, ice, and dust
- Touch function operates through customer-installed materials, including vandal-resistant glass up to 18 mm thick
- True flat front surface possible with no bezel
- Works with gloves
- Works even if glass is scratched or broken

Elo's projected capacitive technology enables touches to be sensed through a protective layer in front of a display, effectively allowing touchmonitors to be installed behind store windows or vandal-resistant glass. The transparent projected capacitive touchscreen, which is installed between the display and a protective outer layer, allows the complete system to have unsurpassed resistance to impacts, scratches, and vandalism commonly found in public-access applications. The sensing technology is also unaffected by moisture, heat, rain, snow and ice, or harsh cleaning fluids, making it ideal for outdoor applications as well. Offered in two versions: DirectTouch, which consists of a 7.8 mm sensor with tempered glass outer layer, and ThruTouch, which is optimized to work through a customer-installed outer layer. The solid-state touchscreen and controller provide increased levels of reliability and longer life expectancy, resulting in a drift-free response and a low-maintenance unit that requires no recalibration.

APPLICATIONS:

- Outdoor kiosks
- Ticketing machines
- ATMs
- Web phones
- Pay-at-the pump gas machines
- Through-glass, under-counter, and bartop applications

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MECHANICAL	
Input Method	Finger or gloved hand
Sensor Thickness	DirectTouch: 7.8 mm ThruTouch: 5.8 mm (plus customer supplied glass up to 18 mm thick)
ELECTRICAL	
Positional Accuracy	<1.5% of reported position in recommended viewing area
Resolution	4096 x 4096
Touch Activation Force	No minimum touch activation force is required
Controller	Integral with the screen, with RS232 interface
OPTICAL	
Light Transmission	Up to 88% per ASTM D1003-92
ENVIRONMENTAL	
Temperature	Operating: –15°C to 70°C Storage: –40°C to 70°C
Relative Humidity	Operating: 0°C at 90% RH, noncondensing
Chemical Resistance	Glass is unaffected by cleaning solutions
Electrostatic Protection	Laminated glass assembly complies with EN 60950, UL 60950, and UL 544
Agency Approvals	UL, TÜV Bauart, FCC, CE
Sealability	Can be sealed to meet NEMA 4 and 12
DURABILITY	
Abrasion Resistance	Glass front, unaffected by surface scratching
Expected Life	No known wear-out mechanism from touch
Shock/Vibration	In accordance with UL291 when installed in a suitable correct bezel
Impact Resistance	Meets UL-60950 and CSA C22.2 No. 60950 ball drop test (0.5 kg, 50 mm diameter ball dropped from height of 1.3 m)
Water	Resistant to water droplets on the surface
Weather	Resistant to snow, ice, rain, sleet, hail, wind, etc.
Warranty	2-year limited

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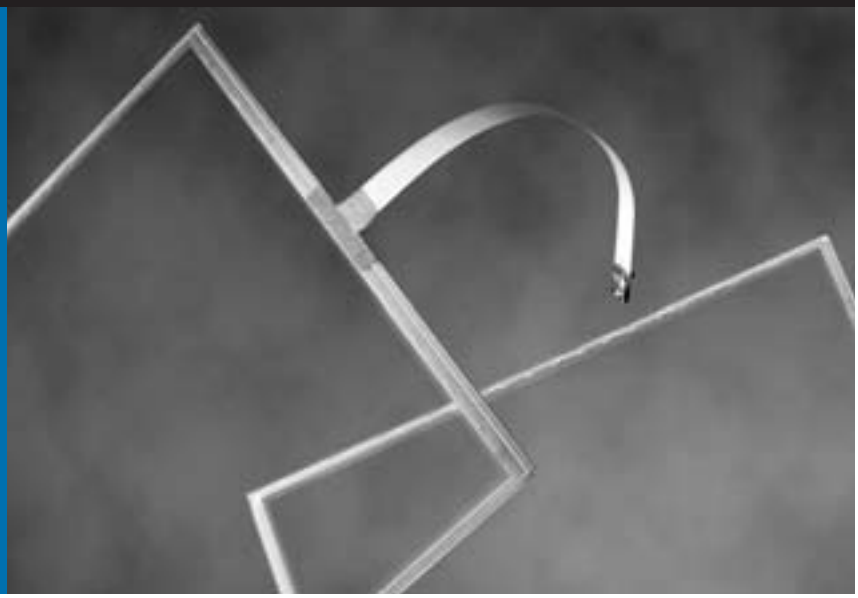
Surface Capacitive

For a Faster Response and Less Drag

BENEFITS:

- Elo's patented narrow Z-border technology for greater linearity
- Fast, sensitive touch response with excellent dragging performance
- Compatible with industry standard protocols including Elo's SmartSet protocol
- Touch performance unaffected by scratches, liquid spills, and everyday abuse



Elo's Surface Capacitive touchscreens are environmentally resilient and offer superior sensitivity, including exceptional drag characteristics, with accurate and fast touch response. And we've added Elo's narrow, patented Z-borders to yield an inherently linear sensor. For your greater protection, a transparent protective coating makes the overlay resistant to scratches and abrasions. What's more, touch performance is unaffected by everyday abuse and mishaps such as dirt, dust, condensation, liquid spills, contaminants, or cleaning solutions. Elo's versatile surface capacitive technology is available in 12", 15", 17", and 19" flat, as well as customized sizes on Elo's portfolio of "designed for touch" touchmonitors.

Elo's surface capacitive touchscreens are ideal for use in markets such as financial/ATM, entertainment/gaming, and retail, including ticketing machines, point-of-sale (POS) terminals, and kiosk-based applications.

APPLICATIONS:

- Point-of-sale (POS) terminals
- Entertainment/Gaming
- Kiosks

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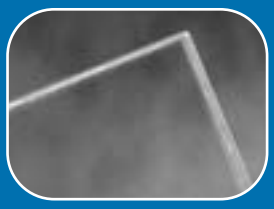
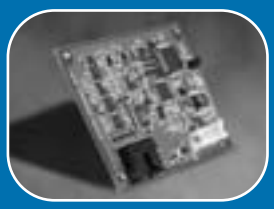
SURFACE CAPACITIVE



Z-border pattern for enhanced linearity



5000RSU serial controller

MECHANICAL	
Input Method	Finger
Available Sizes	DirectTouch: 7.8 mm 12" to 19" flat, standard, and custom sizes; visit our Web site for full specifications and offerings
Glass Thickness	0.118" / 3.0 mm nominal. (Glass only, not including tape, wires, and/or solder if used)
ELECTRICAL	
Positional Accuracy	Reported touch coordinates are within 1.5% of true position (based on viewing area dimensions)
Resolution	Touchpoint density is based on controller resolution of 4096 x 4096
Controller	Controller board size of 2.1" x 3.3" (5.4 x 8.4 cm), with auto-detect function for serial (RS232) connection (using Elo SmartSet drivers)
OPTICAL	
Light Transmission	Up to 85% per ASTM D1003
ENVIRONMENTAL	
Temperature	Touchscreen Operating: –15°C to 70°C Storage: –50°C to 85°C Controller Operating: 0°C to 65°C Storage: –25°C to 85°C
Relative Humidity	Operating/Storage: 10% to 90% RH, noncondensing
Chemical Resistance	Water, ammonia, isopropyl alcohol, and similar nonabrasive cleaners
Agency Approvals	UL, cUL, TÜV, CE, FCC Class A and B, CISPR B
Sealability	Can be sealed to meet NEMA 4 and 12 and IP 65 standards
DURABILITY	
Surface Durability	Antiglare hardcoat cannot be scratched using any stylus with Mohs rating equal to or less than 6. Tested in the laboratory to withstand over 160 million (mechanically simulated) touches without noticeable degradation.
Warranty	Touchscreen 5-year limited warranty Controller 5-year limited warranty

**Always store the touchscreen sensor and controller in the original shipping container. Never store them in an environment where condensation may form.*

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CarrollTouch Infrared

For Automotive, Transportation, and Harsh Environment Applications

BENEFITS:

- Low profile, high resolution
- No parallax
- Highest clarity
- High durability, vandal resistance, and safety
- Sealable from contaminants
- Operates in extreme environments

Elo's CarrollTouch infrared touchscreens provide optical sensor technology for applications in harsh or glass-free environments. The next-generation design features a low-profile 4.5-mm bezel with nearly pixel-level touch resolution and no parallax, and operates in extreme temperature, shock and vibration, and lighting conditions. The display is protected by a choice of glass or acrylic overlays optimized for optical clarity, security, or safety. With their optical sensors, the CarrollTouch touchscreens provide stable, drift-free operation, and deliver an extremely sensitive, accurate touch response. CarrollTouch touchscreens are the ideal choice in many industrial automation, transportation, and in-vehicle applications, POS terminals, and medical equipment.

APPLICATIONS:

- Food processing
- Industrial automation
- Medical equipment
- In-vehicle and transportation
- Point-of-sale (POS) terminals

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CARROLLTOUCH INFRARED

4000S serial and 4000U USB controller boards

Controller chip set

MECHANICAL	
Input Method	Finger or gloved hand activation
Available Sizes	10.4" to 42"; visit our Web site for full specifications and other offerings
ELECTRICAL	
Positional Accuracy	Typical centroid accuracy: 2 mm with 1 mm STD error
Resolution	Touchpoint density is based on controller resolution of 4096 x 4096
Touch Activation Force	No minimum touch activation force is required
Controller	Board: Serial (RS232) or USB 1.1 Chip set: Serial (RS232) and USB 1.1
OPTICAL	
Light Transmission	Glass or acrylic overlay: ≥ 90%
ENVIRONMENTAL	
Temperature	Operating: –20°C to 70°C Storage: –40°C to 85°C
Relative Humidity	Operating: 40°C at 90% RH, noncondensing
Altitude	Operating: 10,000 ft (3,048 m) Storage/transport: 50,000 ft (15,240 m)
Chemical Resistance	Glass overlay: The touch active area of the touchscreen is resistant to chemicals that do not affect glass, such as: acetone, toluene, methyl ethyl ketone, isopropyl alcohol, methyl alcohol, ethyl acetate, ammonia-based glass cleaners, gasoline, kerosene, and vinegar. Acrylic overlay: ASTM D1308 resistance to benzene, toluene, xylene, methylene chloride, acetone, ethyl acetate, and 40% sulfuric acid. Saturated cotton ball test: 30 minutes with gasoline, antifreeze, brake fluid, and diesel fuel with no damage. Polycarbonate bezel: Some sensitivity to hydrocarbons.
Electrostatic Protection	Per EN 61000-4-2, 1995: Meets Level 4 (15 kV air/8 kV contact discharges)
Agency Approvals	UL, cUL, TÜV, CE, FCC Class B
Sealability	Can be sealed to meet NEMA 4 and 12 and IP65 standards
DURABILITY	
Surface Durability	Glass filter option: Surface durability is that of glass, Mohs' hardness rating of 7. Acrylic overlay: 9H or Mohs' hardness rating of 2.7.
Expected Life	No known wear-out mechanism, as there are no layers, coatings, or moving parts
Warranty	Touchscreen: 5-year limited warranty Controller: 5-year limited warranty

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Guide to Choosing an Elo Touch Technology

Your application requirements	Elo technologies
When economy is key	**Four-wire resistive technology**
Clerk- or employee-activated applications - Point-of-sale terminals - Industrial machine control - Handheld computers - Medical equipment - Office automation	**AccuTouch five-wire resistive technology**
Public-access applications - Point-of-information kiosks - Electronic catalog - Gaming, lottery, and amusement - Multimedia marketing - Banking/financial transactions - Ticket sales/transportation - Multimedia pay phones - Industrial control rooms	**IntelliTouch surface-wave technology**
When 100% image quality is a must	**iTouch touch-on-tube surface-wave technology**
In a vandal-risky environment	**SecureTouch vandal-resistant surface-wave technology**
Rugged environments and other special applications - GPS systems in cars, trucks, and other vehicles - Train operating systems - Seatback displays in trains and airplanes - Ticket vending machines - Outdoor applications: ATMs, info kiosks, gas station pumps, multimedia pay phones, and so on - Large (>40") multimedia displays	**CarrollTouch infrared technology**

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Specific Elo features	Form factor options
- Durability and stability at a lower cost point	- Desktop LCD and CRT touchmonitors for most countertop applications - Panel mount, rear mount, and chassis LCD and CRT touchmonitors for easy display and touch solutions - Touchscreen, controller, and chipset components for OEMs
- Stable, drift-free operation—for touch response that's always accurate - Highest touchpoint density - Fast touch response - Finger, gloved-hand, pen, swipe-card, or any other stylus activation - Durability; tested to over 35 million touches on a single point - Sealability to NEMA 4/4X/12, IP65 - Flat and curved touchscreen options for design flexibility - Operation that's not activated by dust or dirt	- Desktop LCD and CRT touchmonitors for most countertop applications - Panel mount, rear mount, and chassis LCD and CRT touchmonitors for easy display and touch solutions - Touchscreen, controller, and chipset components for OEMs
- Pure-glass touchscreen for superior image clarity, brightness, and light transmission - Durable, scratch-resistant glass surface - Operation that's unaffected by static water droplets and scratches on the screen - Stable, drift-free operation—for touch response that's always accurate, even in electrically noisy environments - Touch response faster than human perception - Smart touch response—no false touches - Finger, gloved-hand, or any other stylus activation - Flat and curved touchscreen options for design flexibility - Antiglare option	- Desktop LCD touchmonitors for most countertop applications - Panel mount, rear mount, and chassis LCD and CRT touchmonitors for built-in installations - Touchscreen and controller components for OEMs and integrators
- No overlay—for perfect optical performance without parallax - Toughness that exceeds that of bonded overlays	- Desktop and rear mount CRT touchmonitors
- 6-mm and 12-mm strengthened glass overlays that exceed UL-1950 ball drop specifications	- Rear mount and chassis LCD touchmonitors for built-in installations - Flat touchscreens and controllers for OEMs
- Shock resistance - Finger, gloved-hand, or any other stylus activation (>6 mm) - Stable, drift-free operation—for touch response that's always accurate - Flexible design that can incorporate almost any material for display protection - Wide range of available filters - Sealability to NEMA 3/3R/4/5/12/12K/13, IP65 - Operation unaffected by direct sunlight - Operation unaffected by splashed liquids - Optional lightweight frames for large plasma displays	- Low-profile, extended-resolution IR sensor with acrylic filter, glass filter, or no filter - Matching controller card or chipset solution available

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LCD or CRT

Which Display Type Is Right for Your Application?

Once you've decided to enhance your application with touch and have selected a touch technology—resistive, surface-wave, or infrared—you should compare characteristics of liquid crystal displays (LCDs) and cathode ray tubes (CRTs) to determine which display type best suits your application and environment.

Comparing display types based on the following criteria can help you make the best choice for your application.

Display Life

All displays slowly decline in performance from their new condition by gradually losing brightness. This decline is measured as the period of time required for the display to drop to 50 percent of its original brightness. Displays in touch applications often operate around the clock because many are in public-access settings.

- LCDs—The average expected life of an LCD backlight is 25,000 to 30,000 hours. This represents three to four years of use for a display operating 24 hours a day, seven days a week. The backlight of an LCD can often be replaced economically, prolonging the life of the display.
- CRTs—The average expected life of a CRT is 12,000 to 15,000 hours. This represents one and a half to two years of use for a display operating 24 hours a day, seven days a week. It is rarely economical to replace the tube within a CRT.

Footprint, Appearance, and Weight

With its flat screen and slim footprint, an LCD takes up less space than a CRT. In fact, a 15-inch LCD monitor fits into about 40 percent of the space occupied by a 17-inch CRT, yet has approximately the same viewable area. In addition, LCDs can be mounted on a wall to save desktop space and can fit into smaller available spaces inside industrial equipment. Saving space can translate into increased revenue—you can use the extra space for more merchandise in a retail setting, more employees in an office, or more vital equipment in a workshop or factory.

The futuristic look of LCDs increases their appeal for customers who want to associate their company or application with leading-edge technology.

In addition, LCDs weigh much less than comparable CRTs, which can be a consideration for displays mounted on mechanical arms in settings such as hospitals, or when shipping kiosks that use LCDs.

Advantages of the CRT

- Low purchase price
- Right choice for ultra-high-resolution applications
- Greater viewing angle allows multiple viewers from different angles
- Better for display of full-motion video

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LCD or CRT

Which Display Type Is Right for Your Application?

Advantages of the LCD

- Lower lifetime cost
- Smaller footprint for space-saving applications
- Right choice for high-ambient-light environments
- Delivers a flicker-free image
- Consumes up to one-third less power than a same-sized CRT

Image Quality

- LCDs are available in brightness levels that far exceed those of typical CRTs, which makes them the right choice for environments with high ambient-light levels and for applications, such as public-access kiosks, where a brighter display attracts attention and invites usage. LCDs also deliver a flicker-free image.
- CRTs are the right choice for ultra-high-resolution applications, such as medical imaging. In addition, because the viewing angle of a CRT is greater than that of an LCD, CRTs are preferable for an application where multiple viewers will be looking at a display from different angles. An example is a public-access kiosk used by children and adults or by a group of people at one time. CRTs are also ideal for displaying full-motion video.

Power Consumption and Heat Generation

LCDs consume up to one-third less power than the same-sized CRT monitors, and thus generate less heat than CRTs. This not only saves money, it makes them the right choice for industrial equipment and environments where many displays in a confined space would raise heat levels appreciably and increase HVAC expenses.

Cost and Total Cost of Ownership

A 15-inch LCD touchmonitor has about the same viewing area as a 17-inch CRT touchmonitor, but costs approximately 50 to 100 percent more. However, in comparing the total cost of ownership of an LCD versus a CRT, it's important to also take into account the LCD's longer life span, space-saving ability, and lower power consumption. The cumulative effect of these variables may make the LCD a more cost-effective choice despite its higher purchase price.

Touch Solutions from Elo

LCD and CRT touchmonitors from Elo are simple, stable, durable solutions for the widest range of touch-input applications. Elo offers several touch technologies: AT4 four-wire resistive, AccuTouch five-wire resistive, IntelliTouch surface-wave, SecureTouch surface-wave, iTouch touch-on-tube, projected capacitive, surface capacitive and CarrollTouch infrared. Whichever technology you select, Elo has the right touch solution for your application.

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Desktop or Built-in

Which Kiosk Type Is Right for Your Application?

In the interactive public-access environment, Elo is the touchmonitor manufacturer of choice. But should that choice of kiosk be a freestanding enclosure or a desktop interactive display? Elo offers solutions for both. Elo's line of touchmonitors and touchcomputers includes CRT (cathode ray tube) or LCD (liquid crystal display) displays in a range of sizes and enclosures for desktop or enclosure use.

Desktop Interactive Displays—The New Flexible Kiosk

Desktop interactive displays are perfect for a wide range of applications where cost, mobility, and flexibility are top criteria. Some typical applications include:

- Desktop interactive catalog for e-commerce
- Sales tool for staff
- Self-service station
- Brand-driven multimedia promotions
- Frequent-shopper/affinity programs
- Surveys and market research

Elo Entuitive 1745C rear-mount touchmonitor

Advantages of freestanding enclosures

- Unattended, secure operation 24 hours a day, 7 days a week
- Durable and resistant to abuse
- Branding can be reinforced by kiosk design and graphics
- Accepts peripherals such as bar code scanner, credit card reader, or telephone

Elo Entuitive 1747L rear-mount touchmonitor

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Desktop or Built-in

Which Kiosk Type Is Right for Your Application?

Elo Entuitive 1725L desktop touchmonitor

Advantages of desktop interactive displays

- Mobile and versatile
- One-quarter to one-half the footprint of a freestanding enclosure, frees valuable floor space
- Less than one-third of the cost of a freestanding enclosure solution
- Can be incorporated into existing product displays or retail fixtures

Mobility, Security, and Space

A freestanding enclosure is ideal for unsupervised public use, providing all the benefits of the application while ensuring security of the equipment. Freestanding enclosures are usually fixed and occupy a dedicated amount of floor space. They lack the mobility of the more compact, space-saving desktop interactive displays. Desktop interactive displays can fit into 25 to 50% of the footprint of a freestanding enclosure and can easily be moved around to meet changes in floor space layout. They come packaged in different form factors designed to be placed on existing retail display fixtures, such as shelving, countertops, a customer service desk, or aisle end cap displays, or incorporated into other product merchandising displays to expand interactive opportunities. Desktop interactive displays are limited to areas that are at least semisupervised, while a freestanding kiosk can be left unattended to operate 24 hours a day, 7 days a week as an information or selling tool.

Branding and Cost

The fixed nature and size of a freestanding enclosure provides the opportunity to use kiosk graphics and design to incorporate and customize product/company branding. Both the freestanding enclosure and the desktop interactive display assist in attracting customers and aiding sales. Depending upon the application, a desktop display can be as little as one-third the cost of its sturdier, more secure, and more resilient counterpart.

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Industrial Solutions

Everything You're Looking for in an Industrial Touchmonitor

Advantages of Elo Entuitive industrial touchmonitors

- Superior reliability
- Rapid delivery
- Dedicated technical support
- Competitive price
- Choice of touch technologies
- Choice of configurations
- Stable, drift-free operation
- Scratch and abrasion resistance
- Impact resistance
- Sealability
- Agency certification—UL, TÜV, FCC, CE

The use of touchmonitors in industrial environments continues to grow because they offer the simplest, most direct way for employees to interact with computers. Elo Entuitive touchmonitors, with their many advantages, are the ideal solution for industrial applications.

- **Superior reliability**—Already well known as a vendor of highly reliable touchscreens, Elo now offers equally reliable products for the industrial market.
- **Rapid delivery**—Many products are available from stock, ensuring they can be shipped and put into service quickly.
- **Dedicated technical support**—In addition to giving you the benefit of our expertise as a touchscreen manufacturer, we can also help you solve problems with other aspects of touchmonitor technology, including installation and support for applications and software drivers.
- **Competitive price**—Elo Entuitive touchmonitors offer the best price/performance ratio. They're rugged enough for the industrial environment, yet not burdened with unnecessarily heavy-duty design features that add cost.
- **Largest selection of touch technologies**—Whatever your industrial application or environment, we offer the touch technology to meet your requirements. Choices include AccuTouch five-wire resistive, IntelliTouch surface-wave, SecureTouch surface-wave, iTouch touch-on-tube, and CarrollTouch infrared.
- **Wide selection of configurations**—We offer prebuilt panel mount, chassis, rear mount, and desktop configurations to save you the time you might spend designing and engineering a custom solution.
- **Stable, drift-free operation** is a feature of all Elo touch technologies.
- **Scratch- and abrasion-resistant screens**—Our IntelliTouch, SecureTouch, iTouch, and CarrollTouch touchscreens are highly scratch-resistant and are not impaired even if scratched with a sharp object.
- **Impact-resistant screen option**—Featuring fully tempered glass for 15.1" and smaller sizes and heat-strengthened glass for larger sizes, Elo's SecureTouch touchscreens can withstand heavy abuse or accidents that may occur in an industrial environment.

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Industrial Solutions

Everything You're Looking For in an Industrial Touchmonitor

Elo Entuitive Touchmonitors for Industrial Applications

Entuitive Touchmonitors for Built-in Installation

Size	Panel Mount LCD	Page	Rear Mount CRT	Page	LCD	Page
12"	1266L	78			1246L	58
12"					1247L	60
15"	1545L	79	1545C	84	1546L	62
15"	1566L	80			1547L	64
15"	1567L	81			1547L with Pro Cap	66
15"					1549L	68
17"			1745C	86	1746L	70
17"	1747L	72			1747L	72
17"	1749L	74			1749L	74
19"			1945C	88	1947L	76

Entuitive Touchmonitors: Desktop

Size	CRT Model	Page	LCD Model	Page
12"			1224L	41
15"	1525C/1526C	82	1524L	44
15"			1525L/1527L	45
15"			1525L All-in-One	48
15"			1529L All-in-One	52
17"	1725C/1726C	83	1725L/1727L	54
19"			1925L/1927L	56

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Medical/Healthcare Solutions

Making the Most of Medical and Healthcare Touchmonitors

Advantages of Elo Entuitive medical/healthcare touchmonitors

- Stable, drift-free operation—no need for recalibration
- Complete sealability
- Drip-proof medical-grade models
- Activation by rubber gloves, fingernails, and pens
- Simplification of complex tasks
- Wide range of sizes, displays, and form factors
- Superior reliability
- Rapid delivery
- Dedicated technical support
- Choice of touch technologies
- Scratch and abrasion resistance
- Impact resistance

The practical applications of Elo Entuitive touchmonitors within the medical and healthcare environment are wide and varied. Used with medical equipment, Entuitive touchmonitors act as an interface, improving the efficiency and accuracy of analytical instruments, sophisticated x-ray and ultrasound machines, and cardiac management machines. Entuitive touchmonitors do not require recalibration, even when the equipment is moved frequently. The new drip-proof Entuitive 15" LCD flat-panel medical-grade touchmonitor actually sheds water and is safe from liquid drops and spills. It can be sterilized with hospital-grade disinfectants, which makes it the ideal interface in patient-care areas—such as the operating room—where contamination may occur.

In the healthcare arena, Elo Entuitive touchmonitors help medical professionals in the use of electronic patient records, information systems, nursing station control, and hospital bed management systems. They are also the ideal tools for patient education; patients can use the intuitive touch interface to learn about upcoming surgical procedures or future treatments for their medical conditions in a self-paced, nonthreatening way.

Medical kiosks provide information and interactivity in hospitals and in doctors' and dentists' offices. Elo Entuitive touchmonitors are an integral part of the rapid growth of medical kiosk applications, because the touch interface is universal and can be used by anyone regardless of language, education, or socioeconomic or cultural background.

Elo Entuitive touchmonitors for medical and healthcare applications offer the largest selection of touch technologies.

- **Medical equipment:** AccuTouch five-wire resistive is the most widely used touchscreen technology for medical equipment applications because it handles liquid splashing, aggressive cleaning, and other harsh conditions better than any other technology—and at a competitive price. CarrollTouch scanning infrared technology is well suited for those applications—such as x-ray equipment—that demand superior optical performance as well as a seal.
- **Healthcare:** Surface wave is the most widely used touchscreen technology for healthcare applications. If the application is CRT-based, iTouch touch-on-tube (no-overlay) technology provides superior optical and image quality along with resistance to scratches, breakage, and vandalism. For LCD-based applications, IntelliTouch overlay is widely used, and the SecureTouch touchscreen provides an additional measure of resistance to breakage and vandalism because of its tempered or heat-strengthened glass construction.

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Medical/Healthcare Solutions

Making the Most of Medical and Healthcare Touchmonitors

Elo Entuitive touchmonitors for medical/healthcare applications

Entuitive Touchmonitors for Built-in Applications

Size	Panel Mount LCD	Page	Rear Mount CRT	Page	LCD	Page
12"	1266L	78			1246L	58
15"	1566L	80	1545C	84		
15"	1567L	81			1547L	64
17"			1745C	86	1747L	72
19"			1945C	88		

Entuitive Touchmonitors: Self-Standing

Size	Desktop CRT	Page	Desktop LCD	Page
12"			1224L	41
12"			1229L	42
15"	1525C/1526C	82	1525L/1527L	45
15"			1525L All-in-One	48
15"			1526L*	47
15"			1529L	50
15"			1529L All-in-One	52
17"	1725C/1726C	83	1725L/1727L	54
19"			1925L/1927L	56
19"			1926L*	57

*Medical-grade touchmonitor

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Kiosk Solutions

The Right Choice for Your Kiosk

Elo Entuitive touchmonitors for kiosks are the industry's first sealed touchmonitors designed specifically for kiosk applications.

Touchmonitors are used in the vast majority of kiosks to make interaction intuitive and easy, and Elo Entuitive touchmonitors are the right choice for your kiosk because they are sealed, versatile, durable, and designed specifically for kiosk applications.

Reduces Your Overall Cost

- **Industry-leading engineering for robust operation.** Elo's well-ventilated metal chassis keeps the CRT cooler, significantly extending its operational life. The flat monitor bezel provides a clean interface with the kiosk enclosure and is sealed to the touchscreen to protect the monitor electronics from splashed liquids, dirt, and dust.

  Elo Entuitive LCD touchmonitors for kiosks consume less power and generate less heat than CRTs, making them the right choice for environments where heat generation is a concern.

- **Easy integration into your kiosk design.** With a custom-designed chassis and sealable bezel surface, versatile Elo Entuitive touchmonitors for kiosks—available as CRTs or flat-panel LCDs—integrate easily into your kiosk design. The touchmonitor can be mounted from its front or base (mounting hardware is provided), eliminating the need to spec and purchase brackets and supports.
- **Fixed outside dimensions.** Elo maintains the model design of its kiosk touchmonitors much longer than the average plastic-case monitor manufacturer, reducing the chance you will need to redesign your kiosk around a monitor component change.

Delivers Rugged Performance in Tough Environments

- **Intelligent scratch tolerance.** Elo's surface-wave touch technology continues to operate even with scratches. It actually "reprograms" around surface contamination like gum, grease, and dirt. This capability is especially important in public-access kiosks where wear and tear and vandalism can occur.
- **High light transmission for bright, clear graphics.** Elo's IntelliTouch or SecureTouch surface-wave, pure-glass touchscreens are the highest-clarity touchscreens in the industry. Elo Entuitive LCD touchmonitors with IntelliTouch are even brighter than CRT touchmonitors, which makes them an attractive choice for kiosk environments with high ambient light levels and for applications where a brighter display attracts attention and invites usage. Elo's breakthrough touch-on-tube technology, iTouch, preserves 100 percent of the original CRT brightness and image quality because no overlay is required.
- **Long touchscreen performance life.** Elo's surface-wave technology has been operationally tested to 50 million touches in one location without failure.
- **Break-resistant screens.** SecureTouch touchscreens deliver all the benefits of IntelliTouch screens, plus high impact resistance. SecureTouch products are made of tough, break-resistant glass that inhibits vandalism while providing a fast response to a light touch.

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Kiosk Solutions

The Right Choice for Your Kiosk

Low Maintenance, High Quality

- **Reliable, drift-free operation.** This means no recalibration, which will help keep your maintenance costs down. On-screen display capability allows users to make image adjustments without having to open the monitor.
- **Easy worldwide agency approval.** Elo Entuitive touchmonitors for kiosks are UL recognized, and FCC, CE, and TÜV-Bauart compliant, making it easier for you to obtain worldwide agency approval for your kiosk.
- **Extensive warranties.** Elo stands behind the reliability, quality, and ruggedness of its kiosks by offering a full manufacturer's warranty on all our touchmonitors.

More Solutions from Elo

- **Kiosk white papers and "Ten Tips for Developing Effective Touch Applications" (see page 6).** These materials and more are available on our Web site (www.elotouch.com).

Every Elo kiosk touchmonitor, the world over, comes with Elo's quality service and support from Elo's dedicated technical staff.

Entuitive Touchmonitors for Kiosk Applications

Size	CRT Kiosk	Page	LCD Kiosk	Page	CRT Desktop	Page	LCD Desktop	Page
12"			1246L	58			1224L	41
12"			1247L	60			1229L	42
15"	1545C	84	1546L	62	1525C/1526C	82	1524L	44
15"	1587C	90	1547L	64			1525L/1527L	45
15"			1547L with Pro Cap	66			1525L with MSR	46
15"							1525L All-in-One	48
15"			1549L	68			1529L	50
15"							1529L All-in-One	52
17"	1745C	86	1746L	70	1725C/1726C	83	1725L/1727L	54
17"			1747L	72				
17"	1787C	92	1749L	74			1725L with MSR	55
19"	1945C	88	1947L	76			1925L/1927L	56
19"	1987C	96						
21"	2187C	100						

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entuitive
Touchmonitors

Entertainment, Amusement, and Gaming Solutions

You Can Win with Our Touchmonitors

Elo's touchmonitors are used throughout the entertainment, amusement, and gaming markets. They can be found in legal gaming casinos, interactive coin-operated amusement games, and frequent-player kiosks. Elo has become the company of choice for these markets because we offer a broad range of products—including both touch and non-touch monitors—and provide a single-source supply point for our customers, who have come to rely on Elo's expertise and experience as a monitor manufacturer.

Touch: The Natural Interface

Touch is the most natural interface between player and machine. The simplicity of a touch interface is less intimidating and more inviting than a separate input device; it allows players to concentrate on the activity presented on the screen without having to coordinate the hand-eye movements of an input device. Touch also enables a single user to play multiple games on one machine and gives software developers more freedom to develop creative games with unique payoffs and bonuses.

The Game Goes On

Elo's touchscreens are sensitive enough to respond to a very light touch from a finger, soft stylus, or gloved hand, yet sturdy enough to be unfazed by dirt, scratches, or cigarette ash, and they can be sealed against liquid spills—so the game goes on, uninterrupted.

Extended Family

Elo's family of open-frame CRT and LCD gaming monitors now encompasses 14 models, ranging from 12.1" through 19". It includes 17" and 19" true flat CRT monitors, and 15", 17", and 19" spherical CRT monitors. The LCD family includes 15", 17", and 19" rear mount monitors with wide viewing angles.

Reliability

You expect your desktop monitor never to fail—and the same should be true of your gaming monitor. Elo's open-frame gaming monitors incorporate proven basic circuits from desktop monitors, made more rugged specifically for the gaming and amusement industry. All of Elo's gaming monitors have worldwide agency approvals.

Advantages of Elo's gaming monitors

- Designed and developed for legal gaming casinos, interactive coin-operated amusement games, and frequent-player kiosks
- Open-frame reliability and consistency
- Stable, drift-free operation
- Scratch and abrasion resistant
- Integrated minibezel and watertight seal
- Over 10 models, from 12.1" through 19"
- Worldwide agency approvals
- Single-source supplier

Open-Frame Consistency

Our CRT gaming monitors have been developed with common features and electronics across all sizes. They are designed with a small footprint so that they can fit into machine makers' existing cabinets. The main electronics board measures a mere 20 x 25 cm, but is packed with features such as digital computer-grade video quality; built-in power, deflection, and video test; multilingual remote on-screen display (OSD); and universal auto-switching power supply.

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Entertainment, Amusement, and Gaming Solutions

You Can Win with Our Touchmonitors

Highlights of Elo's CRT gaming monitors

- Choice of iTouch touch technology for truer, brighter colors and graphics
- Common design, field-replaceable electronics
- 17" and 19" true flat gaming monitors
- 15", 17", and 19" FST gaming monitors

Highlights of Elo's LCD gaming monitors

- Choice of IntelliTouch touch technology
- 15", 17", and 19" rear-mount gaming monitors with wide viewing angles

Integrated Minibezel and Watertight Seal

All of Elo's gaming monitors feature our unique, field-replaceable, integrated minibezel. The minibezel forms a watertight faceplate seal to keep spilled drinks away from the electronics and stays in place even when the game cover is open. The seal is about 0.5 mm thick—thinner than a coin.

iTouch Touch-on-Tube Technology

Interactive games and gaming displays must be bright, colorful, attractive, and consistently reliable. Elo's iTouch, which is an option for all CRT gaming monitors, eliminates the traditional glass touchscreen overlay and places the touch sensors directly on the CRT faceplate itself. This provides significantly enhanced on-screen image, graphics, color quality, and clarity—as much as 20 percent greater brightness and 80 percent less reflection than monitors equipped with an overlay.

Entuitive Touchmonitors for Entertainment, Amusement, and Gaming Applications

Size	Open Frame Model	Page	Rear Mount Model	Page	Desktop Model	Page
12"			1247L	60	1224L	41
12"					1229L	42
15"	1587C	90	1546L	62	1525L/1527L	45
15"			1547L with Pro Cap	66	1525L with MSR	46
15"					1525L All-in-One	48
15"			1549L	68	1529L	50
15"					1529L All-in-One	52
17"			1746L	70		
17"	1787C	92	1747L	72	1725L/1727L	54
17"	1788C	94	1749L	74	1725L with MSR	55
19"	1987C	96	1947L	76	1925L/1927L	56
19"	1988C	98				
21"	2187C	100				

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Hospitality/POS Solutions

Simplifying Your POS Application with Elo TouchSystems

15" LCD Entuitive touchmonitor with MSR

Restaurant servers use a touchmonitor station to enter orders, communicate with the kitchen, and reconcile tabs.

From its infancy, touch has been popular in point-of-sale (POS) applications for the restaurant and hospitality industry. Today, POS touch applications are becoming more and more popular in the retail, government, and financial industries. Touchscreens simplify cash-register operation, reduce operator error, and significantly reduce training time, which is especially vital in industries with high employee turnover, such as fast food and retail.

Elo's five-wire resistive AccuTouch technology is the most widely used technology in restaurants, retail stores, hotels, and other POS applications where touch is in daily, high-volume use. AccuTouch offers consistent, drift-free operation and a durable surface that stands up to harsh contaminants and is gasket sealable against liquids. Elo provides a wide selection of Entuitive touchmonitors with AccuTouch five-wire resistive touch technology. Elo touch solutions are also available through a network of authorized POS distributors.

Entuitive Touchmonitors for Point-of-Sale Applications

	CRT		LCD	
Size	Model	Page	Model	Page
12"			1224L	44
12"			1229L	42
15"	1525C/1526C	82	1524L	44
15"			1525L/1527L	45
15"			1525L with MSR	46
15"			1525L All-in-One	48
15"			1529L	50
15"			1529L All-in-One	52
17"	1725C/1726C	83	1725L/1727L	54
17"			1725L with MSR	55

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Desktop

1224L

1000 Series
12" LCD Touchmonitor

SPECIFICATIONS

Model	1224L
Case/Bezel color	Dark gray
Display	Size: 12.1" diagonal; type: Active matrix TFT LCD
Useful screen area	Horizontal: 9.7" (246 mm); vertical: 7.3" (184.5 mm)
Monitor dimensions	Width: 12.3" (312 mm); height (including base): 12.2" (310 mm); depth (including base): 5.7" (146 mm)
Dimensional drawing number	MS500223 (available at elotouch.com)
Optimal (native) resolution	800 x 600
Other supported resolutions	800 x 600 at 56, 60, 72, or 75 Hz; 720 x 400 at 70 Hz; 640 x 480 at 60, 72, or 75; 640 x 350 at 70 Hz
Colors	262,000
Brightness LCD panel LCD panel with touchscreen	180 cd/m^2 AccuTouch: 135 cd/m^2
Response time	50 msec (typical)
Viewing angle (from center)	Horizontal (left/right): ±45° or 90° total; vertical: (up/down) 30°/10° or 40° total
Contrast ratio	150:1
Input video format	VGA analog
Input video signal connector	Mini D-Sub 15-Pin
Input frequency	Horizontal: 30–48 kHz; vertical: 50–75 Hz
Power supply	Type: External power supply; input (line) voltage: 100–240 VAC, 50–60 Hz; output voltage/current: 12 VDC at 3.33 amps max.
Sync type	Horizontal and vertical, composite sync and sync-on-green
Power dissipation	40 W max.
Temperature	Operating: 0°C to 40°C; storage –20°C to 60°C
Humidity	Operating 20% to 80%; storage 10% to 90%; noncondensing
Weight (approx.)	Actual 7.3 lb (3.3 kg); shipping 11.3 lb (5.0 kg)
Warranty	Monitor: 1 year Backlight lamp life: minimum 40,000 hours to half brightness
Agency approvals	UL, cUL, FCC, CE, TÜV-GS, VCCI, C-Tick
Speakers	Not available
On screen display (OSD)	Digital OSD
User's controls	OSD: brightness, contrast, phase, auto adjust, clock, color temperature, information, saturation, hue, flesh tones, OSD position, language (English, French, Deutsch, Spanish, Japanese), recall defaults
Mounting options	Mounting brackets included; exclusive wiper blade for sealing; easel or pedestal base; 75 mm VESA mount

ORDERING INFORMATION

Base	Touch Technology	Touch Interface	Elo Part Number
Easel base	AccuTouch	Serial	503800-000
Pedestal base	AccuTouch	Serial	009234-000

- Users should independently evaluate the suitability of the product for their application.
- All prices, models, and availability subject to change without notice.
- Stock quantities may be limited. Larger quantities are available within one week.
- For Product Agency Certifications refer to our Web site.

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entuitive Touchmonitors

1229L

Desktop

3000 Series
12" LCD Multifunction Touchmonitor

SPECIFICATIONS

Model	1229L
Case/Bezel color	Dark gray
Display	Size: 12.1" diagonal; type: Active matrix TFT LCD; aspect ratio: 4 x 3
Useful screen area	Horizontal: 9.69" (246 mm); vertical: 7.27" (184.5 mm)
Monitor dimensions	Width: 13.9" (353 mm); height (including base): 11.6" (295 mm); depth (including base): 11.8" (300 mm) Dimensions vary with stand position and options selected
Dimensional drawing number	MS500407 (available at elotouch.com)
Optimal (native) resolution	800 x 600
Other supported resolutions	800 x 600 at 56, 60, 72 or 75 Hz; 720 x 400 at 70 Hz; 640 x 480 at 60, 66 (Mac), 72, or 75 Hz
Colors	16.2 million with dithering (6 bit)
Brightness LCD panel LCD panel with touchscreen	300 cd/m² AccuTouch: 246 cd/m²; IntelliTouch 276 cd/m²; CarrollTouch 276 cd/m²
Response time	40 msec (typical)
Viewing angle (from center)	Horizontal (left/right): ±60° or 120° total; vertical (up/down): 50°/40° or 90° total
Contrast ratio	300:1
Input video format	RGB Analog
Input video signal connector	Mini D-Sub 15-Pin VGA type
Input frequency	Horizontal 31.5–50 kHz; vertical 56.3–85 Hz
Power supply	Type: External brick; input (line) voltage: 100–240 VAC, 50–60 Hz; output voltage/current: 12 volts at 4.0 amps max.
Sync type	TBD
Power dissipation	TBD
Temperature	Operating 0°C to 40°C; storage –20°C to 60°C
Humidity	Operating 20% to 80%; storage 5% to 95%; noncondensing
Weight with all options (approx.)	Actual 11.9 lb (5.4 kg); shipping 19.8 lb (9 kg)
Warranty	Monitor: 3 years Backlight lamp life: min 50,000 hours to half brightness
Agency approvals	UL/cUL (*recognized component), FCC, TÜV-GS, CE, VCCI, C-Tick
Speakers	Two watt/channel speakers located in display head
On-screen display (OSD)	OSD lockouts for power and user controls
User's controls	OSD control menu: menu, up, down, select, power; OSD controls: contrast, brightness, V-position, H-position, recall defaults RGB, volume, YUV, phase, clock, OSD H-position, OSD V-position, OSD time, auto adjust, OSD language (English, French, German, Spanish, Japanese), resolution; OSD disable/enable: power, OSD menu
Mounting options	75 mm VESA mount; removable base; optional stability plate
Other features	ENERGY STAR; 2 stage DPMS; VESA DDC Plug and Play
CUSTOMER DISPLAY (optional peripheral)	
Type	Vacuum Fluorescent Display (VFD), 2 rows, 20 characters/row
Characters	5 x 7 dot matrix configuration, 9.5 mm height, 6.2 mm width
Format/color	ASCII/blue-green
FINGERPRINT READER (optional peripheral)	
Type	Optical
Verifying time	< 1 sec
Sensing prism hardness	7 Mohs
Resolution	356 x 292 pixels

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3000 Series
12" LCD Multifunction Touchmonitor

Image speed	Capture: 600 ms/frame; transfer: 500 bytes/ms
Image capture error rate	< 0.1%
MAGNETIC STRIPE READER (optional peripheral)	
Tracks	3
Message format	ASCII
Card speed	3 to 50 inch/sec (7.6 to 127 cm/sec)

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number	Peripherals (fingerprint reader, customer display, MSR)
AccuTouch	Serial	D13071-000	
AccuTouch	Serial	A71780-000	Customer display
AccuTouch	Serial	F14202-000	Serial MSR
AccuTouch	USB, external ports not available	839902-000	
AccuTouch	USB	968708-000	Customer display
AccuTouch	USB	C91253-000	Fingerprint reader
AccuTouch	USB	D45619-000	Fingerprint reader, customer display
AccuTouch	USB	D49457-000	Customer display USB OPOS
AccuTouch	USB	D76652-000	HID MSR
AccuTouch	USB	E57717-000	Keyboard MSR
CarrollTouch	Serial	C45157-000	
CarrollTouch	Serial	169924-000	Serial MSR
CarrollTouch	Serial	F17138-000	Customer display
CarrollTouch	Serial	A81726-000	Customer display, Serial MSR
CarrollTouch	USB, external ports not available	F94006-000	
CarrollTouch	USB	A67871-000	Customer display
CarrollTouch	USB	D96783-000	Customer display, HID MSR
CarrollTouch	USB	F60732-000	HID MSR
CarrollTouch	USB	D46144-000	Keyboard MSR
CarrollTouch	USB	E53652-000	Customer display, Keyboard MSR
CarrollTouch	USB	D04863-000	Fingerprint reader, Customer display, HID MSR
CarrollTouch	USB	A57854-000	Fingerprint reader, Customer display, Keyboard MSR
CarrollTouch	USB	E27226-000	Fingerprint reader
IntelliTouch	Serial	C36453-000	
IntelliTouch	Serial	C41626-000	Serial MSR
IntelliTouch	Serial	A05407-000	Customer display
IntelliTouch	Serial	A87892-000	Customer display, Serial MSR
IntelliTouch	USB, external ports not available	D16736-000	
IntelliTouch	USB	A54312-000	Customer display
IntelliTouch	USB	519694-000	Customer display, HID MSR
IntelliTouch	USB	D60942-000	HID MSR
IntelliTouch	USB	839534-000	Keyboard MSR
IntelliTouch	USB	D03080-000	Customer display, Keyboard MSR
IntelliTouch	USB	479056-000	Fingerprint reader, Customer display, HID MSR
IntelliTouch	USB	888874-000	Fingerprint reader, Customer display, Keyboard MSR
IntelliTouch	USB	D94157-000	Fingerprint reader

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- All prices, models, and availability subject to change without notice.
- Stock quantities may be limited. Larger quantities are available within one week.
- For Product Agency Certifications refer to our Web site.

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1524L

Desktop

1000 Series
15" LCD Touchmonitor

SPECIFICATIONS

Model	1524L
Case/Bezel color	Dark gray
Display	Size: 15.0" diagonal; type: Active matrix TFT LCD
Useful screen area	Horizontal: 12.0" (304 mm); vertical: 9.0" (228 mm)
Monitor dimensions	Width: 15.0" (381 mm); height (including base): 14.5" (370 mm); depth (including base): 7.6" (194 mm)
Dimensional drawing number	MS500230 (available at elotouch.com)
Optimal (native) resolution	1024 x 768 at 75 Hz
Other supported resolutions	1024 x 768 at 60, 66 Hz (Sun), 70, or 75 Hz; 832 x 624 at 75 Hz (Mac); 800 x 600 at 56, 60, 72, or 75 Hz; 720 x 400 at 70 Hz; 720 x 350 at 70 Hz; 640 x 480 at 60, 66 (Mac), 72, or 75 Hz
Colors	16.2 million
Brightness LCD panel LCD panel with touchscreen	250 cd/m^2 typical AccuTouch: 205 cd/m^2 typical
Response time	16 msec (typical)
Viewing angle (from center)	Horizontal (left/right): ±70° or 140° total; vertical (up/down): ±55° or 110° total
Contrast ratio	500:1
Input video format	RGB analog
Input video signal connector	Mini D-Sub 15-Pin VGA type
Input frequency	Horizontal 31.5–60.2 kHz; vertical 56.3–75 Hz
Power supply	Type: Internal; input (line) voltage: 100–240 VAC, 50–60 Hz
Sync type	TBD
Power dissipation	TBD
Temperature	Operating 0°C to 40°C; storage –20°C to 60°C
Humidity	Operating 20% to 80%; storage 10% to 90%; noncondensing
Weight (approx.)	Actual 12.0 lb (5.4 kg); shipping 16.5 lb (7.5 kg)
Warranty	Monitor: 1 year Backlight lamp life: min 50,000 hours to half brightness
Agency approvals	UL/cUL, FCC, TÜV-GS, CE, VCCI, C-Tick, MPR II
Speakers	Not available
On-screen display (OSD)	Multilingual OSD with lock-out capability
User's controls	auto, enter, -, +, menu/exit; OSD: brightness, contrast, phase auto adjust, H-position, V-position, clock, YUV (saturation, hue and flesh tones), RGB (red, green and blue color temperatures), information OSD H-position, OSD V- position, OSD time, language (English, French, Japanese, Deutsch, and Spanish), recall defaults, exit
Mounting options	Removable base; 75 mm VESA mount
Other features	ENERGY STAR

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number
AccuTouch	Dual serial/USB	D20932-001

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Desktop 1525L/1527L

3000 Series
15" LCD Touchmonitors

entuitive Touchmonitors

SPECIFICATIONS

Model	1525L/1527L
Case/Bezel color	Dark gray/Beige
Display	Size: 15.0" diagonal; type: Active matrix TFT LCD; aspect ratio: 4 x 3
Useful screen area	Horizontal: 11.9" (304 mm); vertical: 8.9" (228 mm)
Monitor dimensions	Width: 15.37" (390 mm); height (including base): 15.4" (391 mm); depth (including base): 8.2" (208 mm)
Dimensional drawing number	MS500330 (available at elotouch.com)
Optimal (native) resolution	1024 x 768 at 60, 70, or 75 Hz
Other supported resolutions	1024 x 768 at 65 Hz (Sun); 832 x 624 at 75 Hz (Mac); 800 x 600 at 56, 60, 72, and 75 Hz; 720 x 400 at 70 Hz; 720 x 350 at 70 Hz; 640 x 480 at 60, 66 (Mac), 72 and 75 Hz
Colors	16 million
Brightness LCD panel	350 cd/m^2
LCD panel with touchscreen	AccuTouch: 287 cd/m^2 typical; CarrollTouch: 322 cd/m^2 typical; IntelliTouch: 322 cd/m^2 typical; surface capacitive: 276 cd/m^2 typical
Response time	25 msec (typical)
Viewing angle (from center)	Horizontal (left/right): ±75° or 150° total; vertical; (up/down): 75°/50° or 125° total
Contrast ratio	500:1
Input video format	Analog (no proprietary video card needed)
Input video signal connector	Mini D-Sub 15-Pin VGA type
Input frequency	Horizontal: 31.5–60 kHz; vertical: 56–75 Hz
Power supply	Type: Internal power supply; input (line) voltage: 100–240 VAC, 50–60 Hz
Power dissipation	TBD
Temperature	Operating 0°C to 40°C; storage –30°C to 60°C
Humidity	Operating 20% to 80%; storage 5% to 95%; noncondensing
Weight (approx.)	Actual: 14.7 lb (6.67 kg); shipping: 20.45 lb (9.28 kg)
Warranty	Monitor: 3 years Backlight lamp life: min 40,000 hours to half brightness
Agency approvals	UL/cUL, TÜV-GS, CE, FCC/IC/VCCI/C-Tick Class B
Speakers	Two built-in, rear-facing 1W speakers in display head
On-screen display (OSD)	Digital OSD
User's controls	Side: auto, enter, ±, menu, power; OSD: contrast, brightness, H/V position, color, tempera ture, clock, phase, recall, OSD time, language (English, German, Spanish, Japanese, French); OSD disable/enable: power, volume, and/or OSD menu
Mounting options	75mm VESA mount; removable base; wall-mountable when installed by qualified personnel; optional stability plate
Other features	Sealing

ORDERING INFORMATION

Color	Touch Technology	Touch Interface	Elo Part Number
Dark gray	AccuTouch	Serial	E75784-000
Dark gray	AccuTouch	USB	947098-000
Dark gray	CarrollTouch	Serial	F91950-000
Dark gray	CarrollTouch	USB	A62620-000
Dark gray	IntelliTouch	Serial	E70597-000
Dark gray	IntelliTouch	USB	726256-000
Dark gray	Surface capacitive	Serial	F41115-000
Beige	AccuTouch	Serial	C42910-000
Beige	AccuTouch	USB	D62208-000
Beige	IntelliTouch	Serial	991740-000
Beige	IntelliTouch	USB	C57667-000

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1525L with MSR

Desktop

3000 Series
15" LCD Touchmonitor with Magnetic Stripe Reader

SPECIFICATIONS

Model	1525L with MSR
Case/Bezel color	Dark gray
Display	Size: 15.0" diagonal; type: Active matrix TFT LCD; aspect ratio: 4 x 3
Useful screen area	Horizontal: 11.9" (304 mm); vertical: 8.9" (228 mm)
Monitor dimensions	Width: 15.37" (390 mm); height (including base): 15.4" (391 mm); depth (including base): 8.2" (208 mm)
Dimensional drawing number	MS500330 (available at elotouch.com)
Optimal (native) resolution	1024 x 768 at 60, 70, or 75 Hz
Other supported resolutions	1024 x 768 at 65 Hz (Sun); 832 x 624 at 75 Hz (Mac); 800 x 600 at 56, 60, 72, and 75 Hz; 720 x 400 at 70 Hz; 720 x 350 at 70 Hz; 640 x 480 at 60, 66 (Mac), 72 and 75 Hz
Colors	16 million
Brightness LCD panel	350 cd/m²
Brightness LCD panel with touchscreen	AccuTouch: 287 cd/m² typical; CarrollTouch: 322 cd/m² typical; IntelliTouch: 322 cd/m² typical
Response time	25 msec (typical)
Viewing angle (from center)	Horizontal (left/right): ±75° or 150°; vertical (up/down): 75°/50° or 125° total
Contrast ratio	500:1
Input video format	Analog (no proprietary video card needed)
Input video signal connector	Mini D-Sub 15-Pin VGA type
Input frequency	Horizontal 31.5–60 kHz; vertical 56–75 Hz
Power supply	Type: internal power supply; input (line) voltage 100–240 VAC, 50–60 Hz
Power dissipation	TBD
Temperature	Operating 0°C to 40°C; storage –30°C to 60°C
Humidity	Operating 20% to 80%; storage 5% to 95%; noncondensing
Weight (approx.)	Actual: 14.7 lb (6.67 kg); shipping: 20.45 lb (9.28 kg)
Warranty	Monitor: 3 years Backlight lamp life: min 40,000 hours to half brightness
Agency approvals	UL/cUL, TÜV-GS, CE, FCC/IC/VCCI/C-Tick Class B
Speakers	Two built-in, rear-facing 1W speakers in display head
On-screen display (OSD)	Digital OSD
User's controls	Side: auto, enter, ±, menu, power; OSD: contrast, brightness, H/V position, color, temperature, clock, phase, recall, OSD time, language (English, German, Spanish, Japanese, French); OSD disable/enable: power, volume, and/or OSD menu
Mounting options	75mm VESA mount; removable base; wall-mountable when installed by qualified personnel; optional stability plate
Other features	Sealing
MAGNETIC STRIPE READER (optional peripheral)	
Tracks	3
Message format	ASCII
Card speed	3 to 50 inch/sec (7.6 to 127 cm/sec)

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number	Touch Technology	Touch Interface	Elo Part Number
AccuTouch	Serial	A40174-000	CarrollTouch	USB-Keyboard emulation	D36885-000
AccuTouch	USB-HID	139882-000	IntelliTouch	Serial	A85238-000
AccuTouch	USB-Keyboard emulation	D71579-000	IntelliTouch	USB-HID	A85217-000
CarrollTouch	USB-HID	D57925-000	IntelliTouch	USB-Keyboard emulation	E74617-000

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Desktop

1526L

5000 Series
15" LCD Touchmonitor—Medical

SPECIFICATIONS

Model	1526L
Case/Bezel color	Beige
Display	Size: 15" diagonal; type: Active matrix TFT LCD; aspect ratio: 4 x 3
Useful screen area	Horizontal: 11.9" (304 mm); vertical: 8.9" (228 mm)
Monitor dimensions	Width: 15.4" (391 mm); height (including base): 15.4" (391 mm); depth (including base): 8.2" (208 mm)
Dimensional drawing number	Not available
Optimal (native) resolution	1024 x 768 at 60, 70, or 75 Hz
Other supported resolutions	1024 x 768 at 65 Hz (Sun); 832 x 624 at 75 Hz (Mac); 800 x 600 at 56, 60, 72, and 75 Hz; 720 x 400 at 70 Hz; 720 x 350 at 70 Hz; 640 x 480 at 60, 66 (Mac), 72 and 75 Hz
Colors	16 million (8 bit)
Brightness LCD panel LCD panel with touchscreen	300 cd/m^2 AccuTouch: 255 cd/m^2 typical
Response time	25 msec (typical)
Viewing angle (from center)	Horizontal (left/right): ±75° or 150° total; vertical (up/down): ±70°/60° or 130° total
Contrast ratio	450:1
Input video format	VGA/SVGA/XGA analog
Input video signal connector	Mini D-Sub 15-Pin
Input frequency	Horizontal 31.5–60 kHz; vertical 56–75 Hz
Power supply	Type: External power supply; input (line) voltage: 100–240 VAC, 50–60 Hz; monitor input voltage 15V
Power dissipation	32 W max.
Temperature	Operating 10°C to 40°C; storage –30°C to 60°C
Humidity	Operating 20% to 80%; storage 5% to 90%; noncondensing
Weight (approx.)	Actual: 15.2 lb (6.9 kg); shipping: 21.6 lb (9.8 kg)
Warranty	Monitor: 3 years Backlight lamp life: min 40,000 hours to half brightness
Agency approvals	FCC/IC/C-Tick Class B, UL/cUL Medical UL 2601-1/C22.2 No. 601.1 (Drip-proof IPX1), CE Medical Device Directive EN60601-1, Demko Medical EN60601-1, CB Medical IEC 60601-1. Includes EMC requirements EN/IEC 60601-1-2.
Speakers	Two built-in, rear-facing 1W speakers in display head
On-screen display (OSD)	Digital OSD
User's controls	Side: auto, enter, ±, menu, power; OSD: contrast, brightness, H/V position, color, temperature, clock, phase, recall, OSD time, language (English, German, Spanish, Japanese, French); OSD disable/enable: power, volume, and/or OSD menu
Mounting options	VESA mount; removable base; wall-mountable when installed by qualified personnel

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number
AccuTouch	Serial	F65991-000

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1525L All-in-One Desktop

3000 Series
15" LCD All-in-One Touchcomputer

SPECIFICATIONS

Model	1525L all-in-one touchcomputer
Processor	Via Eden 667 MHz CPU or equivalent
Memory (RAM)	256 MB, expandable to 512 MB[1]
Memory (video)	16 MB[2]
Storage	CE: 64 MB compact flash, XP/2000: 20 GB HDD[3]
USB 1.1 ports	Four external
Serial RS232 ports	Two external
PCMCIA	One Type 2.1 external slot
Compact flash socket	Yes, internal
Ethernet	One TCP/IP 10/100 Base-T RJ45 port
Mouse and keyboard port	One PS/2 each
Network adapter	TCP/IP 10/100 Base-T RJ45 port
Wireless networking	Capable through PCMCIA
Software	Microsoft Windows CE .NET, Windows XP Pro SP2, or Windows 2000 Local Internet Explorer for Windows-based terminals browser
Case/Bezel color	Dark gray
Display	Size: 15.0" diagonal; type: active matrix TFT LCD; aspect ratio: 4 x 3
Useful screen area	Horizontal: 11.9" (304 mm); vertical: 8.9" (228 mm)
Monitor dimensions	Width: 17.1" (434 mm); height (including base): 15.4" (391 mm); depth (including base): 10.6" (270 mm); dimensions vary with stand position and options selected
Dimensional drawing number	MS500495 (available at elotouch.com)
Optimal (native) resolution	1024 x 768 at 60 Hz
Colors	16 million with dithering
Brightness LCD panel LCD panel with touchscreen	350 cd/m^2 AccuTouch: 287 cd/m^2 typical; IntelliTouch: 322 cd/m^2 typical
Response time	25 msec (typical)
Viewing angle (from center)	Horizontal (left/right): ±60° or 120° total Vertical (up/down): 60°/45° or 105° total
Contrast ratio	500:1
Power supply	Type: External brick; input (line) voltage: 100–240 VAC, 50–60 Hz (auto switching)
Power dissipation	40 W max.[4]
Temperature	Operating: 0°C to 40°C; storage: –20°C to 60°C
Humidity	Operating: 20% to 80%; storage: 5% to 95%; noncondensing
Weight (approx., with all options)	Actual: 17.4 lb (7.9 kg); shipping: 22.7 lb (10.3 kg)
Warranty	1 year[5]
Agency approvals	UL, cUL, FCC, CE, TÜV-GS, VCCI, C-Tick
Speakers	Two built-in, 1-watt speakers in display head
On-screen display (OSD)	Digital OSD
User's controls	Side: Power and user controls with lockout function for public use
Mounting options	75 mm VESA mount; M4 threaded holes on back of monitor; M5 threaded holes on base bottom for tabletop security
Other features	Energy-saving automatic power-down; convection, fanless design for cooling
CUSTOMER DISPLAY (optional peripheral)	
Type	Vacuum Fluorescent Display (VFD), 2 rows, 20 characters/row
Characters	5 x 7 dot matrix configuration, 9.5 mm height, 6.2 mm width
Format/color	ASCII/blue-green

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3000 Series
15" LCD All-in-One Touchcomputer

SPECIFICATIONS

MAGNETIC STRIPE READER (optional peripheral)	
Tracks	3
Message format	ASCII
Card speed	3 to 50 inch/sec (7.6 to 127 cm/sec)

ORDERING INFORMATION

Technology	Touch Interface	Touch OS	Storage	Elo Part Number	Peripherals (customer display, MSR)
AccuTouch	USB	CE	Compact flash	E08919-000	
AccuTouch	USB	CE	Compact flash	F00839-000	Serial customer display
AccuTouch	USB	XP	Hard drive	C32392-000	
AccuTouch	USB	XP	Hard drive	A82367-000	Serial customer display
AccuTouch	USB	2000	Hard drive	F95046-000	
AccuTouch	USB	2000	Hard drive	A88088-000	Serial customer display
IntelliTouch	USB	CE	Compact flash	C63175-000	
IntelliTouch	USB	CE	Compact flash	E73369-000	Keyboard MSR
IntelliTouch	USB	CE	Compact flash	E36798-000	Serial customer display
IntelliTouch	USB	CE	Compact flash	A78783-000	Serial customer display, keyboard MSR
IntelliTouch	USB	XP	Hard drive	D37281-000	
IntelliTouch	USB	XP	Hard drive	D58125-000	HID MSR
IntelliTouch	USB	XP	Hard drive	D61906-000	Keyboard MSR
IntelliTouch	USB	XP	Hard drive	C94408-000	Serial customer display, HID MSR
IntelliTouch	USB	XP	Hard drive	E21843-000	Serial customer display, keyboard MSR
IntelliTouch	USB	2000	Hard drive	C04515-000	
IntelliTouch	USB	2000	Hard drive	F84197-000	HID MSR
IntelliTouch	USB	2000	Hard drive	C48832-000	Keyboard MSR
IntelliTouch	USB	2000	Hard drive	A84590-000	Serial customer display, HID MSR
IntelliTouch	USB	2000	Hard drive	F83851-000	Serial customer display, keyboard MSR

1 Maximum memory varies depending on model and may require replacement of standard memory with optional maximum memory module.
2 Memory supports both system and video. Accessible system memory may be up to 16 MB less than the amount stated, depending on the video mode.
3 GB equals one billion bytes when referring to hard disk drive capacity. Accessible capacity may be less.
4 All performance is typical; power is with no additional loads.
5 Two year limited warranty for European Union (EU) countries; 1 year limited warranty for rest of the world.

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1529L

Desktop

3000 Series
15" LCD Multifunction Touchmonitor

SPECIFICATIONS

Model	1529L
Case/Bezel color	Dark gray/Beige
Base	Short/tall stand
Display	Size: 15.0" diagonal; type: active matrix TFT LCD; aspect ratio: 4 x 3
Useful screen area	Horizontal: 11.98" (304.1 mm); vertical: 8.98" (228 mm)
Monitor dimensions (max. with short stand)	Width: 13.99" (355 mm); height: 11.27" (286 mm); depth: 10.44" (265 mm); dimensions vary with stand position and options selected
Dimensional drawing number	MS500540 (available at elotouch.com)
Optimal (native) resolution	1024 x 768
Other supported resolutions	1024 x 768 at 60, 65, 70, or 75 Hz; 832 x 624 at 75 Hz; 800 x 600 at 56, 60, 72, or 75 Hz; 720 x 400 at 70 Hz; 720 x 350 at 70 Hz; 640 x 480 at 60, 66 (Mac), 72, or 75 Hz
Colors	16.2 million colors, 6 bit with dithering
Brightness LCD panel	350 cd/m^2 typical
Brightness LCD panel with touchscreen	AccuTouch: 287 cd/m^2 typical; CarrollTouch: 322 cd/m^2 typical; IntelliTouch: 322 cd/m^2 typical
Response time	25 msec (typical)
Viewing angle (from center)	Horizontal (left/right): ±75° or 150° total; vertical (up/down): 75°/50° or 125° total
Contrast ratio	400:1
Input video format	RGB analog; DVD-I
Input video signal connector	Mini D-Sub 15-Pin VGA type; DVI-D connector
Input frequency	Horizontal: 31–60 kHz; vertical: 56–75 Hz
Power supply	Type: AC/DC input internal; AC input (line) voltage: 85–265 VAC, 47–63 Hz; DC input: 12V ± 0.75V
Sync type	TBD
Power dissipation	30 W max.
Temperature	Operating: 0°C to 40°C; storage: –20°C to 60°C
Humidity	Operating: 20% to 80%; storage: 5% to 95%; noncondensing
Weight (approx. with touch, short stand)	Actual: 14.44 lb (6.55 kg); shipping: 21.16 lb (9.6 kg)
Warranty	Monitor: 3 years Backlight lamp life: min 40,000 hours to half brightness
Agency approvals	UL/cUL *recognized component, FCC, TÜV-GS, CE, VCCI, C-Tick
Speakers	Two watt/channel speakers located in display head
On-screen display (OSD)	Side: Power and user OSD with lockout function for public use
User's controls	OSD control menu: menu, up, down, select, power; OSD controls: contrast, brightness, V-position, H-position, RGB, volume, YUV, phase, clock, OSD H-position, OSD V-position, OSD time, auto adjust, OSD language (English, French, German, Dutch, Spanish, Japanese), input select; OSD disable/enable: power, OSD menu
Mounting options	75 mm VESA mount; removable base
Other features	ENERGY STAR; 2 stage DPMS; VESA DDC Plug and Play; Kensington lock; touchscreen sealed to bezel and LCD
12.1" CUSTOMER DISPLAY (optional peripheral)	
Color	16.2 million colors, 6 bit with dithering
Optimal resolution	800 x 600
Brightness LCD panel	180 cd/m^2 typical
Brightness LCD panel with IntelliTouch	166 cd/m^2 typical
Contrast ratio	150:1
Useful screen area	Horizontal: 9.69" (246 mm); vertical: 7.26" (184.5 mm)
Input video format	RGB analog
Input video signal connector	Mini D-Sub 15-Pin VGA type

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3000 Series
15" LCD Multifunction Touchmonitor

SPECIFICATIONS

20 x 2 CUSTOMER DISPLAY (optional peripheral)	
Type	Vacuum Fluorescent Display (VFD), 2 rows, 20 characters/row
Characters	5 x 7 dot matrix configuration, 9.5 mm height, 6.2 mm width
Format/color	ASCII/blue-green
FINGERPRINT READER (optional peripheral)	
Type	Optical
Verifying time	<1 sec
Sensing prism hardness	7 Mohs
Resolution	356 x 292 pixels
Image speed	Capture: 600 ms/frame; transfer: 500 bytes/ms
Image capture error rate	<0.1%
MAGNETIC STRIPE READER (optional peripheral)	
Tracks	3
Message format	ASCII
Card speed	3 to 50 inch/sec (7.6 to 127 cm/sec)

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number	Peripherals (fingerprint reader,customer display, MSR)	USB Hub (yes, no)	Base (short, tall)	Color (gray, beige)
AccuTouch	Serial/USB	F46991-000		No	Short	Gray
CarrollTouch	Serial/USB	A59588-000		No	Short	Gray
IntelliTouch	Serial/USB	D62751-000		No	Short	Gray
AccuTouch	Serial/USB	C23311-000		No	Short	Beige
CarrollTouch	Serial/USB	E16662-000		No	Short	Beige
IntelliTouch	Serial/USB	E77078-000		No	Short	Beige
AccuTouch	Serial/USB	F14716-000		No	Tall	Gray
CarrollTouch	Serial/USB	D04393-000		No	Tall	Gray
IntelliTouch	Serial/USB	E00972-000		No	Tall	Gray
AccuTouch	Serial/USB	E34990-000		No	Tall	Beige
CarrollTouch	Serial/USB	288272-000		No	Tall	Beige
IntelliTouch	Serial/USB	E39774-000		No	Tall	Beige
AccuTouch	USB	A16263-000	HID MSR	Yes	Short	Gray
CarrollTouch	USB	F32313-000	HID MSR	Yes	Short	Gray
IntelliTouch	USB	A94888-000	HID MSR	Yes	Short	Gray
AccuTouch	USB	D30809-000	Keyboard MSR	Yes	Short	Gray
CarrollTouch	USB	F94329-000	Keyboard MSR	Yes	Short	Gray
IntelliTouch	USB	D85900-000	Keyboard MSR	Yes	Short	Gray
IntelliTouch	USB	E16794-000	HID MSR, fingerprint reader	Yes	Short	Gray
IntelliTouch	USB	D01792-000	Keyboard MSR, fingerprint reader	Yes	Short	Gray
AccuTouch	USB	A36626-000	USB 20 x 2 customer display, HID MSR	Yes	Short	Gray
CarrollTouch	USB	E56627-000	USB 20 x 2 customer display, HID MSR	Yes	Short	Gray
IntelliTouch	USB	A40640-000	USB 20 x 2 customer display, HID MSR	Yes	Short	Gray
CarrollTouch	USB	A65942-000	USB 20 x 2 customer display, keyboard MSR, fingerprint reader	Yes	Short	Gray
AccuTouch	USB	F09152-000	12.1" customer display (no touch), HID MSR	Yes	Short	Gray
CarrollTouch	USB	D38020-000	12.1" customer display (no touch), HID MSR	Yes	Short	Gray
IntelliTouch	USB	E36679-000	12.1" customer display (no touch), HID MSR	Yes	Short	Gray
AccuTouch	USB	E74257-000	12.1" customer display (with touch), HID MSR	Yes	Short	Gray
CarrollTouch	USB	F39300-000	12.1" customer display (with touch), HID MSR	Yes	Short	Gray
IntelliTouch	USB	C98615-000	12.1" customer display (with touch), HID MSR	Yes	Short	Gray
IntelliTouch	USB	C88605-000	USB 20 x 2 customer display, HID MSR, fingerprint reader	Yes	Short	Gray
AccuTouch	USB	F41297-000	USB 20 x 2 customer display, keyboard MSR	Yes	Short	Gray
CarrollTouch	USB	E97942-000	USB 20 x 2 customer display, keyboard MSR	Yes	Short	Gray
IntelliTouch	USB	A56833-000	USB 20 x 2 customer display, keyboard MSR	Yes	Short	Gray
AccuTouch	USB	E34949-000	12.1" customer display (no touch), keyboard MSR	Yes	Short	Gray
CarrollTouch	USB	E55136-000	12.1" customer display (no touch), keyboard MSR	Yes	Short	Gray
IntelliTouch	USB	C12144-000	12.1" customer display (no touch), keyboard MSR	Yes	Short	Gray
AccuTouch	USB	A97407-000	12.1" customer display (with touch), keyboard MSR	Yes	Short	Gray
IntelliTouch	USB	E02656-000	12.1" customer display (with touch), keyboard MSR	Yes	Short	Gray
IntelliTouch	USB	D29715-000	12.1" customer display (with touch), keyboard MSR	Yes	Short	Gray

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1529L All-in-One Desktop

3000 Series
15" LCD All-in-One Touchcomputer

SPECIFICATIONS

Model	1529L all-in-one touchcomputer
Processor	Via Eden 1 GHz CPU or equivalent
Memory (RAM)	512 MB[1]
Memory (video)	16 MB[2]
Storage	CE: 128 MB compact flash, XP/XP Embedded/2000: 30 GB HDD[3]
USB 1.1 ports	Four external
Serial RS232 ports	Two external
PCMCIA	One Type 2.1 external slot
Compact flash socket	Yes, internal
Mouse and keyboard port	One PS/2 each
Network adapter	TCP/IP 10/100 Base-T RJ45 port (Ethernet)
Wireless networking	Capable through PCMCIA
Operating system	Microsoft Windows CE .NET, Windows XP Professional, Windows XP Embedded, or Windows 2000 Local Internet Explorer for Windows-based terminals browser
Case/Bezel color	Dark gray
Base	Short or tall stand
Display	Size: 15" diagonal; active matrix TFT LCD; aspect ratio: 4 x 3
Useful screen area	Horizontal: 11.98" (304.1 mm); vertical: 8.98" (228 mm)
Monitor dimensions (max. with short stand)	Width: 13.99" (355 mm); height (including base): 11.27" (286 mm); depth (including base): 10.44" (265 mm) Dimensions vary with stand position and options selected
Optimal (native) resolution	1024 x 768 at 60, 70, or 75 Hz
Colors	16.2 million colors, 6 bit with dithering
Brightness LCD panel LCD panel with touchscreen	350 cd/m^2 AccuTouch: 287 cd/m^2 typical; IntelliTouch: 322 cd/m^2 typical
Response time	25 msec (typical)
Viewing angle (from center)	Horizontal (left/right): ±75° or 150° total; vertical (up/down): 75°/50° or 125° total
Contrast ratio	400:1
Power supply	Type: External brick; input (line) voltage: 100–240 VAC, 50–60 Hz (auto switching)
Power dissipation	30 W max.[4]
Temperature	Operating: 0°C to 40°C; storage: –20°C to 60°C
Humidity	Operating: 20% to 80%; storage: 5% to 95%; noncondensing
Weight (approx., with all options)	Actual: 17.38 lb (7.88 kg); shipping: 22.66 lb (10.26 kg)
Agency approvals	UL, cUL, FCC, CE, TÜV-GS, VCCI, C-Tick
Speakers	Two watt/channel speakers located in display head
User's controls	Side: Power and user OSD with lockout function for public use
Mounting options	75 mm VESA mount
Other features	ENERGY STAR; removable base; touchscreen sealed to bezel and LCD
CUSTOMER DISPLAY (optional peripheral)	
Type	Vacuum Fluorescent Display (VFD), 2 rows, 20 characters/row
Characters	5 x 7 dot matrix configuration, 9.5 mm height, 6.2 mm width
Format/color	ASCII/blue-green

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3000 Series
15" LCD All-in-One Touchcomputer

SPECIFICATIONS

MAGNETIC STRIPE READER (optional peripheral)	
Tracks	3
Message format	ASCII
Card speed	3 to 50 inch/sec (7.6 to 127 cm/sec)

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number	Peripherals (Customer display, MSR)	OS	Storage
AccuTouch	USB	F83975-000		CE	Compact flash
AccuTouch	USB	E45687-000	Serial customer display	CE	Compact flash
IntelliTouch	USB	A60521-000		CE	Compact flash
IntelliTouch	USB	C41708-000	Keyboard MSR	CE	Compact flash
IntelliTouch	USB	A86491-000	Serial customer display	CE	Compact flash
IntelliTouch	USB	A07240-000	Serial customer display, keyboard MSR	CE	Compact flash
AccuTouch	USB	D86683-000		XP	Hard drive
AccuTouch	USB	A07240-000	Serial customer display	XP	Hard drive
IntelliTouch	USB	D86683-000		XP	Hard drive
IntelliTouch	USB	A03161-000	HID MSR	XP	Hard drive
IntelliTouch	USB	A76195-000	Keyboard MSR	XP	Hard drive
IntelliTouch	USB	967440-000	Serial customer display, HID MSR	XP	Hard drive
IntelliTouch	USB	D01198-000	Serial customer display, keyboard MSR	XP	Hard drive
AccuTouch	USB	D99994-000		2000	Hard drive
AccuTouch	USB	F22545-000	Serial customer display	2000	Hard drive
IntelliTouch	USB	E91643-000		2000	Hard drive
IntelliTouch	USB	E82317-000	HID MSR	2000	Hard drive
IntelliTouch	USB	C32066-000	Keyboard MSR	2000	Hard drive
IntelliTouch	USB	E82983-000	Serial customer display, HID MSR	2000	Hard drive
IntelliTouch	USB	F23779-000	Serial customer display, keyboard MSR	2000	Hard drive

[1] Maximum memory varies depending on model and may require replacement of standard memory with optional maximum memory module.
[2] Memory supports both system and video. Accessible system memory may be up to 16 MB less than the amount stated, depending on the video mode.
[3] GB equals one billion bytes when referring to hard disk drive capacity. Accessible capacity may be less.
[4] All performance is typical; power is with no additional loads.

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1725L/1727L Desktop

3000 Series 17" LCD Touchmonitors

SPECIFICATIONS

Model	1725L/1727L
Case/Bezel color	Dark gray/Beige
Display type	Size: 17.0" diagonal; type: Active matrix TFT LCD
Useful screen area	Horizontal: 13.3" (338 mm); vertical: 10.6" (270 mm)
Monitor dimensions	Width: 17.1" (434 mm); height (including base): 16.93" (430 mm); depth (including base): 9.62" (244 mm)
Dimensional drawing number	MS500484 (availalve at elotouch.com)
Optimal (native) resolution	1280 x 1024
Other supported resolutions	1280 x 1024 at 60 or 75 Hz; 1280 x 960 at 60 Hz; 1152 x 864 at 75 Hz; 1024 x 768 at 60, 65 Hz (Sun), 70, or 75 Hz; 832 x 624 at 75 Hz (Mac); 800 x 600 at 56, 60, 72, or 75 Hz; 720 x 400 at 70 Hz; 640 x 480 at 60, 66 Hz (Mac), 72, or 75 Hz
Colors	16 million with dithering (6 bit)
Brightness LCD panel LCD panel with touchscreen	260 cd/m² AccuTouch: 213 cd/m² typical ; IntelliTouch: 239 cd/m² typical ; SecureTouch: 234 cd/m² typical
Response time	25 msec (typical)
Viewing angle (from center)	Horizontal (left/right): ±70° or 140° total; vertical (up/down): ±70° or 140° total
Contrast ratio	450:1
Input video format	Analog (no proprietary video card needed); Digital Video Input (DVI-D)
Input sync format	Separate H & V, composite sync and sync-on-green
Input video signal connector	Mini D-Sub 15-Pin; DVI-D
Input frequency	Horizontal 31.5–80 kHz; vertical 56.3–75 Hz
Input audio	TBD
Input data	TBD
Power supply	Type: External power supply, 100–240 VAC, 50–60 Hz; monitor input voltage: 11.4–19.95 VDC; current (12 VDC): 4A; current (19 VDC): 2.65A
Power dissipation	50 W max.
Temperature	Operating 0°C to 40°C; storage –20°C to 60°C
Humidity	Operating 20% to 80%; storage 10% to 90%; noncondensing
Weight (approx.)	Actual: 20.92 lb (9.49 kg); monitor without stand: 15.08 lb (6.84 kg); shipping: 27.42 lb (12.44 kg)
Warranty	Monitor: 3 years Backlight lamp life: typical 40,000 hours to half brightness
Agency approvals	UL, cUL, FCC, IC, CE, TÜV-GS, VCCI, C-Tick, MPR II
Speakers	2 watt/channel speakers located in display head
On-screen display (OSD)	OSD lockouts for power and user controls; OSD extras include volume, treble, bass, balance
User's controls	Side: menu, up, down, select, power; OSD: contrast, brightness, screen H/V position, recall defaults, RGB, YUV (saturation, hue, flesh tones), phase, clock, OSD H/V position, OSD time, auto adjust, language (English, German, Spanish, Japanese, French), input select (analog or digital) OSD disable/enable: power, volume, and/or OSD menu
Mounting options	100 mm or 75 mm M4 VESA mount; 100 mm M5 threaded holes on base bottom for table top security; removable base; reversible stand for wall mounting; stand rotates from -5° (from vertical) to 90° (horizontal); optional stability plate

ORDERING INFORMATION

Color	Touch Technology	Touch Interface	Elo Part Number	Color	Touch Technology	Touch Interface	Elo Part Number
Dark gray	AccuTouch	Serial	954174-001	Beige	AccuTouch	Serial	482392-001
Dark gray	AccuTouch	USB	069914-001	Beige	AccuTouch	USB	227258-001
Dark gray	IntelliTouch	Serial	D00405-001	Beige	IntelliTouch	Serial	D33055-001
Dark gray	IntelliTouch	USB	442072-001	Beige	IntelliTouch	USB	869890-001

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Desktop

1725L with MSR

3000 Series
17" LCD Touchmonitor with Magnetic Stripe Reader

SPECIFICATIONS

Model	1725L with MSR
Case/Bezel color	Dark gray
Display type	Size: 17.0" diagonal; type: Active matrix TFT LCD
Useful screen area	Horizontal: 13.3" (338 mm); vertical: 10.6" (270 mm)
Monitor dimensions	Width: 18.8" (478 mm); height (including base): 16.9" (430 mm); depth (including base): 9.4" (238 mm)
Dimensional drawing number	MS500446 (available at elotouch.com)
Optimal (native) resolution	1280 x 1024 at 60, 70, or 75 Hz
Other supported resolutions	1024 x 768 at 60, 70, or 75 Hz; 832 x 624 at 75 Hz (Mac); 800 x 600 at 56, 60, 72, or 75 Hz; 720 x 400 at 70 Hz; 640 x 480 at 60, 66 Hz (Mac), 72, or 75 Hz
Colors	16 million with dithering (6 bit)
Brightness LCD panel	250 cd/m²
LCD panel with touchscreen	AccuTouch: 205 cd/m² typical; IntelliTouch: 230 cd/m² typical
Response time	16 msec (typical)
Viewing angle (from center)	Horizontal (left/right) ±70° or 140° total; vertical (up/down): ±70° or 140° total
Contrast ratio	450:1 (typical)
Input video format	Analog (no proprietary video card needed); Digital Video Input (DVI-D)
Input sync format	TBD
Input video signal connector	Mini D-Sub 15-Pin; DVI-D
Input frequency	Horizontal: 31.5–80 kHz; vertical: 56–75 Hz
Input audio	TBD
Input data	TBD
Power supply	Type: External power supply, 100–240 VAC, 50–60 Hz; monitor input voltage: 19V; current: 3.42A
Power dissipation	45 W max.
Temperature	Operating 0°C to 40°C; storage –20°C to 60°C
Humidity	Operating 20% to 80%; storage 5% to 95%; noncondensing
Weight (approx.)	Actual 22.2 lb (10 kg); shipping 30.8 lb (14 kg)
Warranty	Monitor: 3 years Backlight lamp life: typical 40,000 hours to half brightness
Agency approvals	UL, cUL, FCC, IC, CE, TÜV-GS, VCCI, C-Tick
Speakers	Two watt/channel speakers located in display head
On-screen display (OSD)	OSD lockouts for power and user controls; OSD extras include volume, treble, bass, balance
User's controls	Side: auto, enter, ±, menu, power; OSD: contrast, brightness, H/V position, color, temperature, clock, phase, recall, OSD time, language (English, German, Spanish, Japanese, French) OSD disable/enable: power, volume, and/or OSD menu
Mounting options	100 mm or 75 mm M4 VESA mount; 100 mm M5 threaded holes on base bottom for table top security; removable base; reversible stand for wall mounting; stand rotates from -5° (from vertical) to 90° (horizontal); optional stability plate
MAGNETIC STRIPE READER (optional peripheral)	
Tracks	3
Message format	ASCII
Card speed	3 to 50 inch/sec (7.6 to 127 cm/sec)

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number	Touch Technology	Touch Interface	Elo Part Number
AccuTouch	Serial	E76025-001	IntelliTouch	Serial	D14995-001
AccuTouch	USB-HID	E87300-001	IntelliTouch	USB-HID	F37082-001
AccuTouch	USB-Keyboard emulation	E43463-001	IntelliTouch	USB-Keyboard emulation	D66140-001

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1925L/1927L Desktop

3000 Series
19" LCD Touchmonitors

SPECIFICATIONS

Model	1925L/1927L
Case/Bezel color	Dark gray/Beige
Display	Size: 19" diagonal; type: active matrix TFT LCD; aspect ratio: 5 x 4
Useful screen area	Horizontal: 14.8" (376 mm); vertical: 11.9" (301 mm)
Monitor dimensions	Width: 17.2" (436 mm); height (inc. base): 18.0" (457 mm); depth (inc. base): 9.49" (241 mm)
Dimensional drawing number	MS500442 (available at elotouch.com)
Optimal (native) resolution	1280 x 1024
Other supported resolutions	1280 x 1024 at 60 or 75 Hz; 1152 x 864 at 75 Hz; 1024 x 768 at 60, 65, 70, or 75 Hz; 832 x 624 at 75 Hz (Mac); 800 x 600 at 56, 60, 72, or 75 Hz; 720 x 400 at 70 Hz; 720 x 350 at 70 Hz; 640 x 480 at 60, 66, 72, or 75 Hz
Colors	16.7 million (8 bit)
Brightness LCD panel	250 cd/m^2
Brightness LCD panel with touchscreen	IntelliTouch: 230 cd/m^2 typical; AccuTouch: 200 cd/m^2 typical
Response time	25 msec (typical)
Viewing angle (from center)	Horizontal: (left/right): ±85° or 170° total; vertical: (up/down): ±85° or 170° total
Contrast ratio	700:1 (typical)
Input video format	Digital Video Input (DVI-D), analog, S-Video, NTSC/PAL
Input sync format	Separate horizontal and vertical, composite sync, sync-on-green
Input video signal connector	DVI-I, RCA, S-Video on monitor; DVI-D, HD-15, S-Video, RCA plugs via cables
Input frequency	Horizontal: 31–80 kHz; vertical: 56–75 Hz
Input audio	Computer audio on 3.5 mm stereo mini; audio for video on dual RCA jacks
Input data	Serial touch or USB 1.1 touch (with two external USB ports for peripherals)
Power supply	Type: internal dual voltage power supply; input (line) voltage: 85–265 V, 50–60 Hz and/or 12 VDC @ 3.75 A (max) (provided: inlets IEC60320-1C6 for AC and 5.5 mm external/ 2.5 mm internal coaxial for DC; cords NEMA 15-3 and CEE 7 Schuko)
Power dissipation	40 W. max.
Temperature	Operating: 0°C to 40°C; storage: –20°C to 60°C
Humidity	Operating: 20% to 80%; storage: 5% to 90%; noncondensing
Weight (approx.)	Actual: 21.5 lb (9.78 kg); shipping: 30.0 lb (13.6 kg)
Warranty	Monitor: 3 years; backlight lamp life: 50,000 hours
Agency approvals	UL/cUL, TÜV-GS, CE, FCC/IC/VCCI/C-Tick Class B, CB Report/Certificate/MPRII/Section 508
Speakers	Two built-in, rear-facing 2W speakers in display head
On-screen display (OSD)	Digital; locking OSD and/or power
User's controls	OSD: brightness, contrast, color temperature, H/V position, phase/clock, recall, auto-adjust, input select, language (English, Spanish, German, French, Italian, Swedish, Finnish, Danish, Portuguese, Dutch, Japanese)
Mounting options	100 mm M4 VESA mount; 100 mm M5 threaded holes on base bottom for tabletop security; removable base; reversible stand for wall mounting; stand rotates from –5° (from vertical) to 90° (horizontal); locking OSD and/or power; locking tilt control

ORDERING INFORMATION

Color	Touch Technology	Touch Interface	Elo Part Number	Color	Touch Technology	Touch Interface	Elo Part Number
Dark gray	AccuTouch	Serial	D44146-000	Beige	AccuTouch	Serial	E15667-000
Dark gray	AccuTouch	USB	A65490-000	Beige	AccuTouch	USB	E41974-000
Dark gray	IntelliTouch	Serial	E03485-000	Beige	IntelliTouch	Serial	D85248-000
Dark gray	IntelliTouch	USB	D34183-000	Beige	IntelliTouch	USB	E99941-000

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Desktop

1926L

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5000 Series
19" LCD Touchmonitor—Medical

SPECIFICATIONS

Model	1926L
Case/Bezel color	Dark gray; special logo application and painting available at additional cost
Display	Size: 19" diagonal; type: active matrix TFT LCD; aspect ratio: 5 x 4
Useful screen area	Horizontal: 14.8" (376 mm); vertical: 11.9" (301 mm)
Monitor dimensions	Width: 17.2" (436 mm); height (including base): 18.0" (457 mm); depth (including base): 9.49" (241 mm)
Dimensional drawing number	MS500442 (available at elotouch.com)
Optimal (native) resolution	1280 x 1024 at 60, 70 or 75 Hz
Other supported resolutions	1152 x 864 at 75 Hz; 1024 x 768 at 60, 65, 70, or 75 Hz; 832 x 624 at 75 Hz (Mac); 800 x 600 at 56, 60, 72, or 75 Hz; 720 x 400 at 70 Hz; 720 x 350 at 70 Hz; 640 x 480 at 60, 66, 72, or 75 Hz
Colors	16.7 million (8 bit)
Brightness LCD panel LCD panel with touchscreen	300 cd/m^2 typical AccuTouch: 246 cd/m^2 typical; IntelliTouch: 276 cd/m^2 typical
Response time	25 msec (typical)
Viewing angle (from center)	Horizontal (left/right): ±85° or 170° total (typical); vertical (up/down): ±85° or 170° total (typical)
Contrast ratio	700:1
Input video format	Digital Video Input (DVI-D), analog, S-Video, NTSC/PAL
Input video signal connector	DVI-I, RCA, S-Video on monitor; DVI-D, HD-15, S-Video, RCA plugs via cables
Input syncs	Separate horizontal and vertical, composite sync, sync-on-green
Input audio	Computer audio on 3.5 mm stereo mini; audio for video on dual RCA jacks
Input frequency	Horizontal: 31.5–80 kHz; vertical: 56–75 Hz
Input data	Serial touch or USB 1.1 touch (with two external USB ports for peripherals)
Power supply	Type: external (inlet connector: IEC60320-C13) Input (line) voltage: 100–240 V, 50/60 Hz
Power dissipation	40 W max.
Temperature	Operating: 0°C to 40°C; storage: –20°C to 60°C
Humidity	Operating: 20% to 80%; storage: 5% to 90%; noncondensing
Weight (approx.)	Actual: 21.5 lb (9.78 kg); shipping: 30.0 lb (13.6 kg)
Warranty	Monitor: 3 years
Agency approvals	UL/cUL Classified 60601-1, CE, FCC/IC/C-Tick Class B, IPX1 (AccuTouch only)
Speakers	Two built-in, rear-facing 2W speakers in display head
On-screen display (OSD)	Digital; locking OSD and/or power
User's controls	OSD: brightness, contrast, color temperature, H/V position, phase/clock, recall, auto-adjust, input select, language (English, Spanish, German, French, Italian, Swedish, Finnish, Danish, Portuguese, Dutch, Japanese)
Mounting options	100 mm M4 VESA mount; 100 mm M5 threaded holes on base bottom for tabletop security; removable base; reversible stand for wall mounting; stand rotates from –5° (from vertical) to 90° (horizontal); locking OSD and/or power; locking tilt control

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number
AccuTouch	Serial	F49784-000
AccuTouch	USB	107650-000
IntelliTouch	Serial	F05428-000
IntelliTouch	USB	F72589-000

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1246L

Rear Mount

3000 Series
12" LCD Touchmonitor

SPECIFICATIONS

Model	1246L
Case/Bezel color	Black, metal bezel and back
Display	Size: 12.1" diagonal; type: Active matrix TFT LCD
Useful screen area	Horizontal: 9.7" (246 mm); vertical: 7.3" (185 mm)
Monitor dimensions	Width: 13.2" (335 mm); height: 11.0" (278 mm); depth: 2.5" (63 mm)
Dimensional drawing number	MS500130 (available at elotouch.com)
Optimal (native) resolution	800 x 600 at 60, 70, or 75 Hz
Other supported resolutions	640 x 480 at 60, 70, or 75 Hz
Colors	6-bit, 262,144
Brightness LCD panel LCD panel with touchscreen	300 cd/m² AccuTouch: 240 cd/m² typical; IntelliTouch/SecureTouch: 275 cd/m² typical
Response time	TBD
Viewing angle (from center)	Horizontal (left/right): ±60° or 120° total; vertical (up/down) 40°/55° or 95° total
Contrast ratio	200:1
Input video format	VGA/SVGA analog
Input video signal connector	Mini D-Sub 15-Pin (female)
Input frequency	Horizontal 25–60 Hz; vertical 56–75 Hz
Power supply	Type: 100–240 VAC, 0.4 amps max. 50–60 Hz
Power dissipation	TBD
Temperature	Operating 0°C to 50°C; storage –25°C to 60°C
Humidity	Operating 90%; storage 90%; noncondensing
Weight (approx.)	Actual 11.9 lb (5.4 kg); shipping 18.4 lb (8.4 kg)
Warranty	Monitor: 3 years Backlight lamp life: 50,000 hours at full brightness
Agency approvals	UL, cUL, FCC, CE, TÜV
On-screen display (OSD)	Digital OSD
User's controls	Back: exit, up, down, menu; OSD: brightness, contrast, phase, H/V position, horizontal size (clock), sharpness, OSD position, OSD time out, language (English, French, Italian, German, Spanish, Danish), smart settings
Mounting options	Rear mount

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number
AccuTouch	Serial	E14601-000
AccuTouch	USB	C71607-000
IntelliTouch	Serial	C02490-000
IntelliTouch	USB	F64532-000
SecureTouch	Serial	E77251-000
SecureTouch	USB	D74971-000

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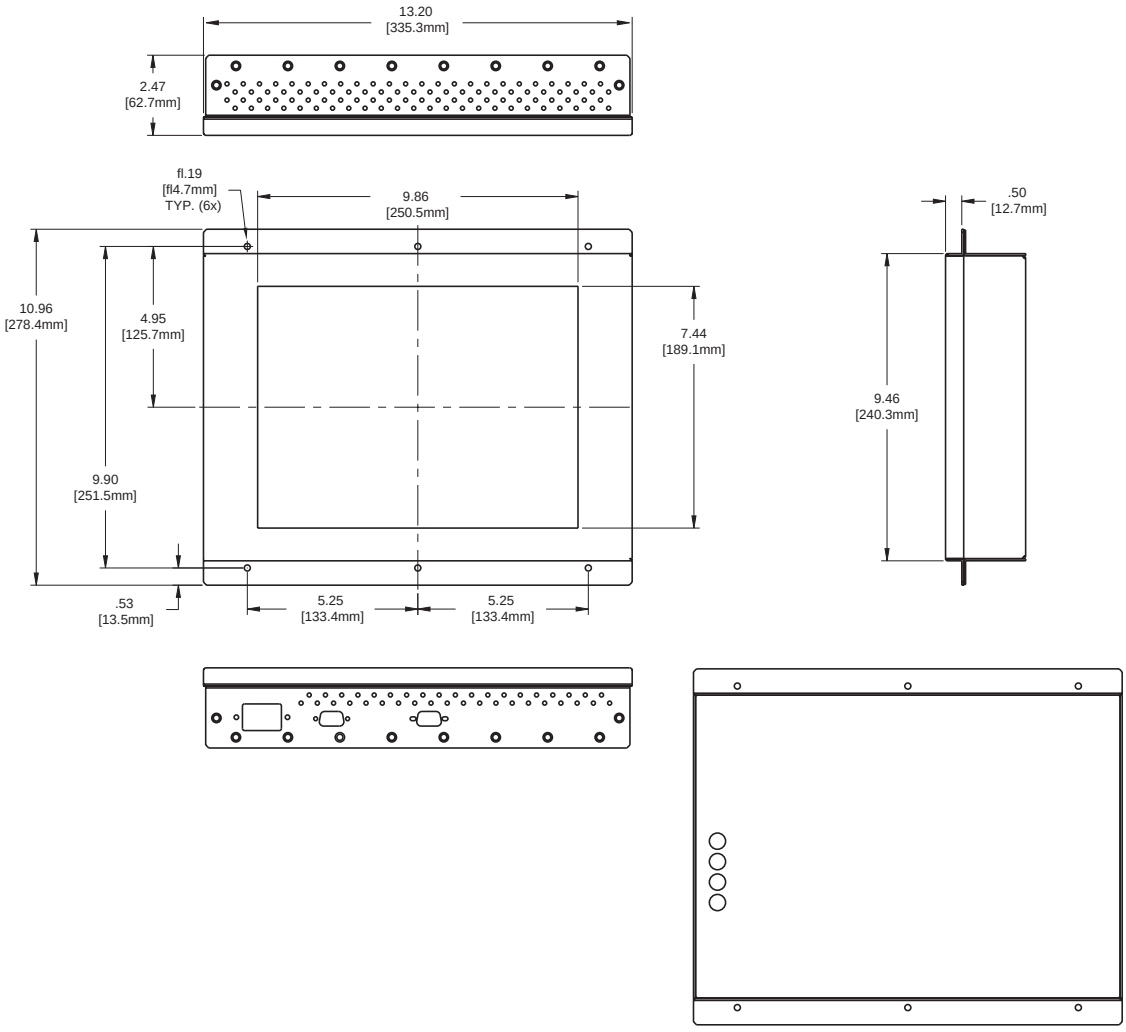
3000 Series
12" LCD Touchmonitor



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1247L

Rear Mount

3000 Series
12" LCD Touchmonitor

SPECIFICATIONS

Model		1247L
Case/Bezel color		Galvanized sheet metal; black plastic bezel
Display		Size: 12.1" diagonal; type: Active matrix TFT LCD; aspect ratio: 4 x 3
Useful screen area		Horizontal: 9.69" (246 mm); vertical: 7.27" (184.5 mm)
Monitor dimensions		Width: 11.92" (302.5 mm); with bracket: 14.14" (359 mm); height: 9.53" (242 mm); depth: 2.36" (60 mm)
Dimensional drawing number		MS500368 (available at elotouch.com)
Optimal (native) resolution		800 x 600
Other supported resolutions		800 x 600 at 56, 60, 72, and 75 Hz; 720 x 400 at 70 Hz; 640 x 480 at 60, 66 Hz (Mac), 72 and 75 Hz; 640 x 350 at 70 Hz
Colors		262,000
Brightness	LCD panel	300 cd/m^2
	LCD panel with touchscreen	IntelliTouch: 275 cd/m^2 (typical)
Response time		50 msec (typical)
Viewing angle (from center)		Horizontal (left/right): ±60° or 120° total; vertical (up/down): 50°/40° or 90° total
Contrast ratio		300:1 (typical)
Input video format		RGB analog
Input video signal connector		Mini D-Sub 15-Pin VGA type
Input frequency		Horizontal 31.5–48.1 KHz; vertical 56.3–75 Hz
Power supply		Type: external brick; input (line) voltage 100–240 VAC, 50–60 Hz; output voltage/current 12 volts at 3.33 amps maximum
Power dissipation		TBD
Temperature		Operating 0°C to 40°C; storage –20°C to 60°C
Humidity		Operating 20% to 85%; storage 5% to 95%; noncondensing
Weight (approx.)		Actual 8.8 lb (4 kg); shipping 13.6 lb (6.2 kg)
Warranty		Monitor: 3 years Backlight lamp life: minimum 50,000 hours at full brightness
Agency approvals		UL/cUL (*recognized component), FCC, TÜV-Bauart, CE, VCCI, C-Tick
On-screen display		Remote OSD with 1.8 m cable
User's controls		Remote OSD: minus (-), plus (+), down, up; OSD: contrast, brightness, autotune, quality (frequency, phase, track, text-graphics, return), position (horizontal, vertical, center, return), color (red, blue, green, return), language (English, Chinese, Japanese), recall, save exit, cancel exit
Mounting options		75 mm VESA mount; mounting brackets included; rear mount through bezel or with included brackets
Other features		ENERGY STAR; 2 stage DPMS; VESA DDC Plug and Play

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number
IntelliTouch	Serial	D92310-000
IntelliTouch	USB	E45839-000

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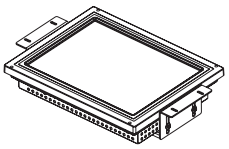
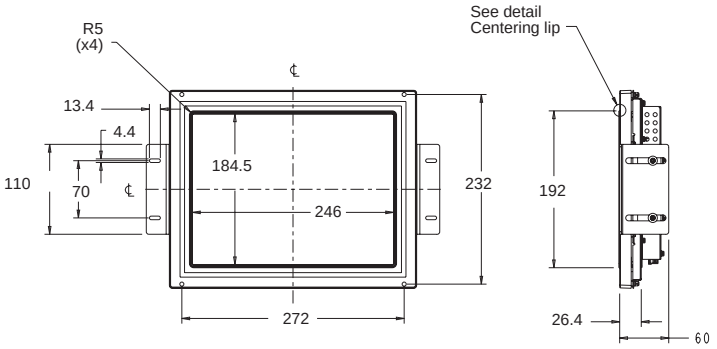
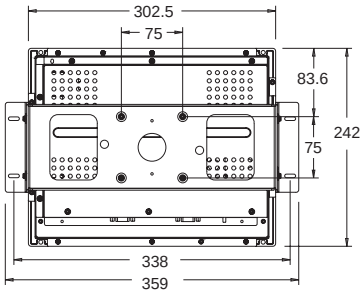
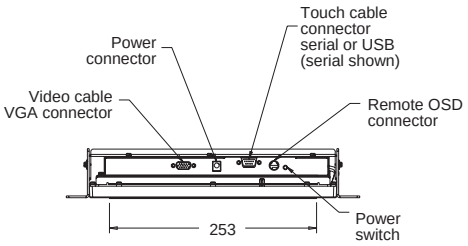
3000 Series
12" LCD Touchmonitor

Detail Centering lip
Scale 2,000





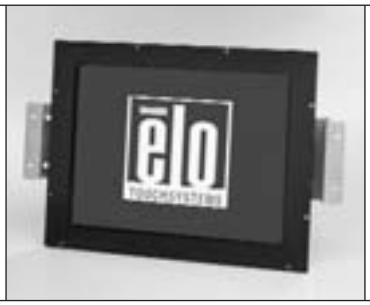




1546L

Rear Mount

1000 Series
15" LCD Touchmonitor



SPECIFICATIONS

Model		1546L
Case/Bezel color		Black plastic bezel with metal back
Display		Size: 15" diagonal; type: active matrix TFT LCD
Useful screen area		Horizontal: 11.97" (304 mm); vertical: 8.98" (228 mm)
Monitor dimensions		Width: 14.96" (380 mm); height: 11.65" (296 mm); depth: 2.64" (67 mm)
Dimensional drawing number		MS500501 (available at elotouch.com)
Optimal (native) resolution		1024 x 768
Other supported resolutions		1024 x 768 at 60, 65 (Sun), 70, or 75 Hz; 832 x 624 at 75 Hz (Mac); 800 x 600 at 56, 60, 72, or 75 Hz; 720 x 400 at 70 Hz; 720 x 350 at 70 Hz; 640 x 480 at 60, 66 (Mac), 72, or 75 Hz
Colors		16 million with dithering, 6 bit per color data
Brightness	LCD panel	250 cd/m^2
	LCD panel with touchscreen	IntelliTouch: 225 cd/m^2
Response time		25 msec (typical)
Viewing angle (from center)		Horizontal: (left/right): ±70° or 140° total; vertical: (up/down): 55°/65° or 125° total
Contrast ratio		300:1
Input video format		Analog (no proprietary video card needed)
Input video signal connector		Mini D-Sub 15-Pin (female)
Input frequency		Horizontal: 31.5–60 KHz; vertical: 56–75 Hz
Power supply		Type: Internal power supply; input (line) voltage: 100–240 VAC, 50–60 Hz
Power dissipation		30 W max.
Temperature		Operating: 0°C to 40°C; storage: –20°C to 60°C
Humidity		Operating: 20% to 80%; storage: 5% to 90%; noncondensing
Weight (approx.)		Actual: 13.23 lb (6.0 kg); shipping: 17.64 lb (8.0 kg)
Warranty		Monitor: 1 year
Agency approvals		UL, cUL, FCC, CE, TÜV-Bauart, VCCI, C-Tick, MPR II
On-screen display		Remote OSD with 1.8 m cable
Other features		Remote OSD with 1.8 m cable; VESA mount (75 mm); panel cutout; exclusive wiper blade for sealing; mounting brackets included

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number
IntelliTouch	Serial	C27979-000
IntelliTouch	USB	D94001-000

- Users should independently evaluate the suitability of the product for their application.
- All prices, models, and availability subject to change without notice.
- Stock quantities may be limited. Larger quantities are available within one week.
- For Product Agency Certifications, please refer to our Web site.

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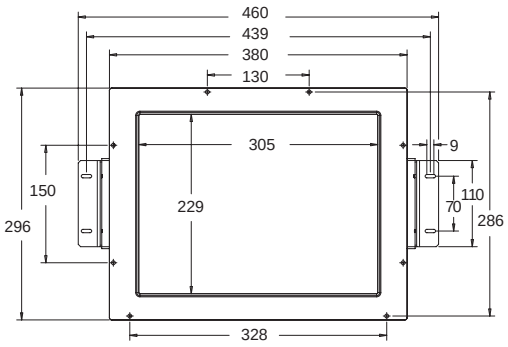
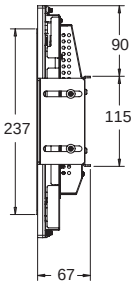
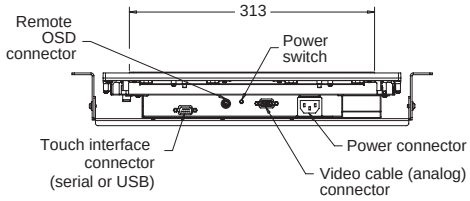
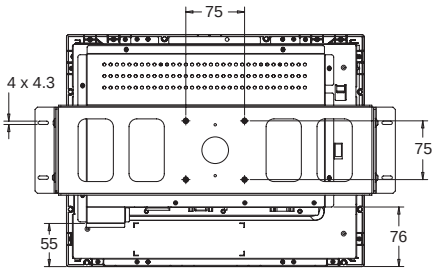
1000 Series
15" LCD Touchmonitor









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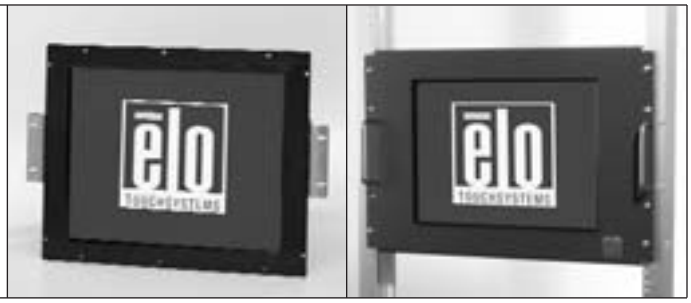
1547L Rear Mount

3000 Series 15" LCD Touchmonitor



SPECIFICATIONS

Model	1547L
Case/Bezel color	Black
Display	Size: 15" diagonal; type: Active matrix TFT LCD; aspect ratio: 4 x 3
Useful screen area	Horizontal: 11.9" (304 mm); vertical: 8.9" (228 mm)
Monitor dimensions	Width with bracket: 18.1" (460 mm); height: 11.6" (296 mm); depth with bracket: 2.83" (72 mm)
Dimensional drawing number	MS500235 (available at elotouch.com)
Optimal (native) resolution	1024 x 768 at 60, 70, or 75 Hz
Other supported resolutions	1024 x 768 at 65 Hz (Sun); 832 x 624 at 75 Hz (Mac); 800 x 600 at 56, 60, 72, and 75 Hz; 720 x 400 at 70 Hz; 720 x 350 at 70 Hz; 640 x 480 at 60, 66 (Mac), 72 and 75 Hz
Colors	16 million
Brightness LCD panel LCD panel with touchscreen	350 cd/m² AccuTouch: 287 cd/m² typical; CarrollTouch: 322 cd/m² typical; IntelliTouch: 322 cd/m² typical; SecureTouch: 315 cd/m² typical; Surface capacitive: 276 cd/m² typical
Response time	25 msec
Viewing angle (from center)	Horizontal (left/right): ±75° or 150° total; vertical (up/down): 70°/50° or 125° total
Contrast ratio	500:1
Input video format	Analog (no proprietary video card needed)
Input video signal connector	Mini D-Sub 15-Pin VGA type
Input frequency	Horizontal 31.5–60 kHz; vertical 56–75 Hz
Power supply	Type: Internal power supply; Input (line) voltage: 100–240 VAC, 50–60 Hz
Power dissipation	22 W (typical)
Temperature	Operating 0°C to 50°C; storage –30°C to 60°C
Humidity	Operating 20% to 80%; storage 5% to 95%; noncondensing
Weight (approx.)	Actual 10.85 lb (4.92 kg); shipping: 16.9 lb. (7.66 kg)
Warranty	Monitor: 3 years Backlight lamp life: min 40,000 hours to half brightness
Agency approvals	UL/cUL, TÜV-GS, CE, FCC/IC/VCCI/C-Tick Class B
On-screen display (OSD)	Remote OSD with 1.8 m cable
User's controls	Remote OSD: Auto/Sel, up, down, menu; OSD: contrast, brightness, H/V position, color, temperature, clock, phase, recall, OSD time, language (English, German, Spanish, Japanese, French); OSD disable/enable: power, volume, and/or OSD menu
Mounting options	75 mm VESA mount; 19" rack-mount option; panel cut-out; mounting brackets included; panel-mount option

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number
AccuTouch	Serial	516452-000
AccuTouch	USB	C32978-000
CarrollTouch	Serial	387888-000
CarrollTouch	USB	F10657-000
IntelliTouch	Serial	823428-000
IntelliTouch	USB	576426-000
SecureTouch	Serial	C80308-000
SecureTouch	USB	A65349-000
Surface capacitive	Serial	C59911-000

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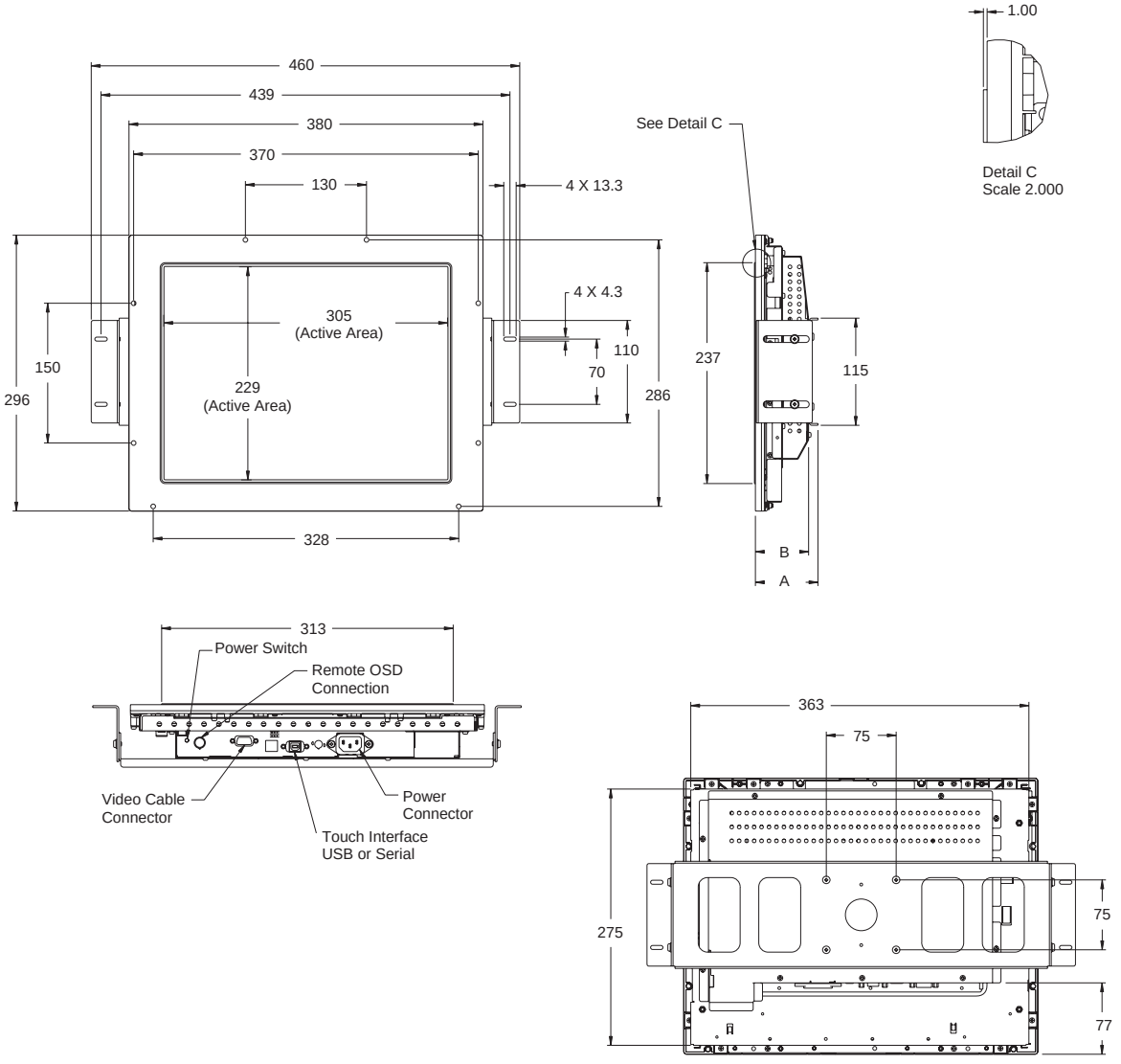
3000 Series
15" LCD Touchmonitor



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1547L with Projected Capacitive

Rear Mount

3000 Series 15" LCD Touchmonitor

SPECIFICATIONS

Model	1547L with projected capacitive
Case/Bezel color	Black
Display	Size: 15" diagonal; type: Active matrix TFT LCD; aspect ratio: 4 x 3
Useful screen area	Horizontal: 11.9" (304 mm); vertical: 8.9" (228 mm)
Monitor dimensions (Dimensions shown are for horizontal bracket installation)	DirectTouch Width: 18.1" (460 mm); DirectTouch Height: 11.6" (296 mm); DirectTouch Depth: 2.83" (72 mm) ThruTouch Width: 18.1" (460 mm); ThruTouch Height: 11.5" (293 mm); ThruTouch Depth: 2.52" (64 mm)
Dimensional drawing number	MS500443 (DirectTouch) (available at elotouch.com) MS500444 (ThruTouch) (available at elotouch.com)
Optimal (native) resolution	1024 x 768 at 60, 70, or 75 Hz
Other supported resolutions	1024 x 768 at 65 Hz (Sun); 832 x 624 at 75 Hz (Mac); 800 x 600 at 56, 60, 72, and 75 Hz; 720 x 400 at 70 Hz; 720 x 350 at 70 Hz; 640 x 480 at 60, 66 (Mac), 72 and 75 Hz
Colors	16 million
Brightness LCD panel LCD panel with touchscreen	350 cd/m² DirectTouch: 298 cd/m² typical; *ThruTouch: 315 cd/m² typical *Brightness will vary with different materials/thickness that are used to cover the touchscreen
Response time	25 msec (typical)
Viewing angle (from center)	Horizontal (left/right): ±75° or 150° total; vertical (up/down): 75°/50° or 125° total
Contrast ratio	500:1
Input video format	Analog (no proprietary video card needed)
Input video signal connector	Mini D-Sub 15-Pin VGA type
Input sync format	TBD
Input frequency	Horizontal: 31.5–60 KHz; vertical: 56–75 Hz
Power supply	Type: Internal power supply; input (line) voltage: 100–240 VAC, 50–60 Hz
Power dissipation	TBD
Temperature	Operating 0°C to 50°C; storage –30°C to 60°C
Humidity	Operating 20% to 80%; storage 5% to 95%; noncondensing
Weight with all options (approx.)	DirectTouch Actual: 12.1 lb (5.5 kg); DirectTouch Shipping: 18.7 lb (8.5 kg) ThruTouch Actual: 11.6 lb (5.3 kg); ThruTouch Shipping: 18.2 lb (8.3 kg)
Warranty	Integrated monitor: 1 year Backlight lamp life: min 40,000 hours to half brightness
Agency Approvals	UL/cUL, TÜV-Bauart, CE, FCC/IC/VCCI/C-Tick Class B
On-screen display (OSD)	Remote OSD with 1.8 m cable
User's controls	Remote OSD: Auto/Sel, up, down, menu; OSD: contrast, brightness, H/V position, color, temperature, clock, phase, recall, OSD time, language (English, German, Spanish, Japanese, French); OSD disable/enable: power, volume, and/or OSD menu
Mounting options	DirectTouch and ThruTouch: 75 mm VESA mount; panel cut-out; mounting brackets included: DirectTouch only: 19" rack-mount option

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number
Projected capacitive DirectTouch	Serial	F60749-000
Projected capacitive ThruTouch	Serial	A71384-000

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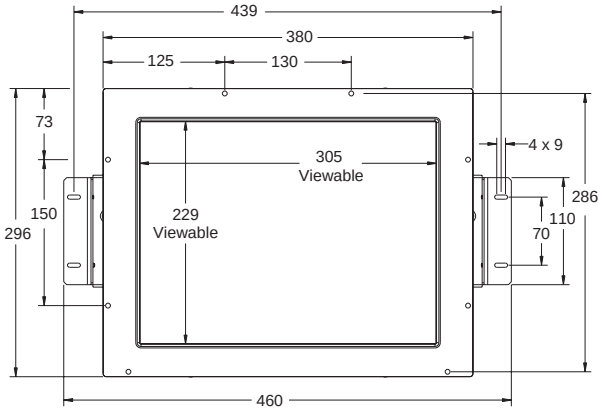

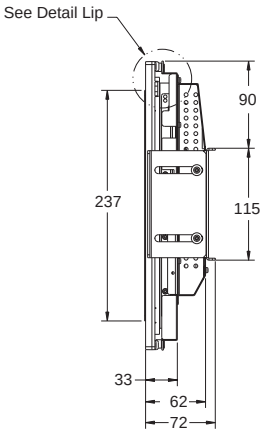

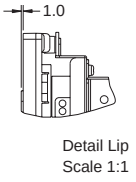

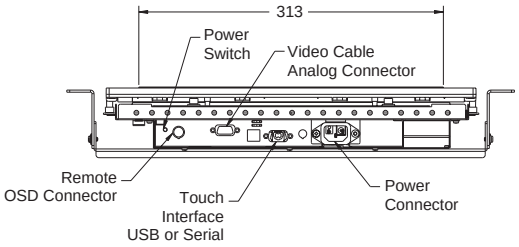

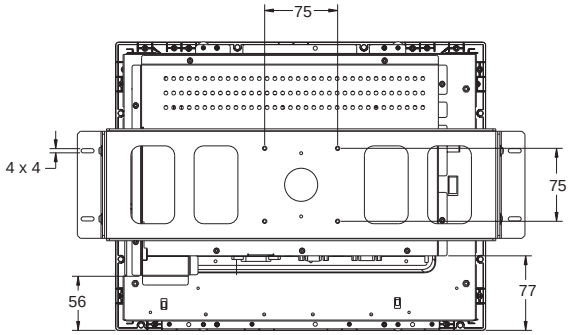

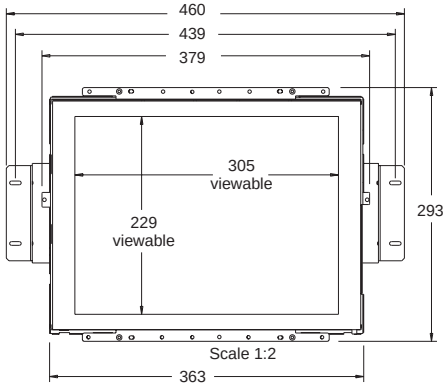

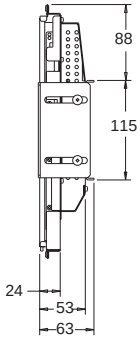

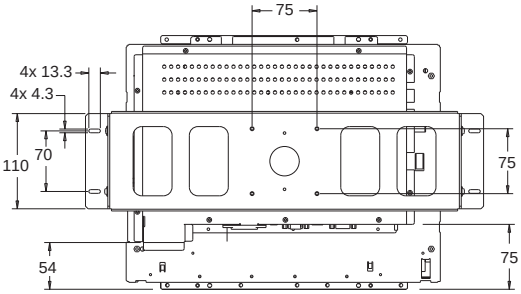

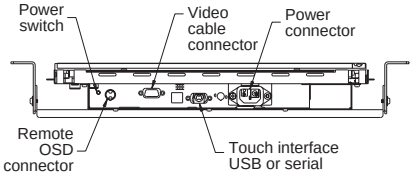

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Touchmonitors

1549L

Rear Mount

3000 Series
15" LCD Touchmonitor

SPECIFICATIONS

Model	1549L
Case/Bezel color	Galvanized sheet metal; black plastic bezel
Display type	Size: 15.0" diagonal; type: Active matrix TFT LCD; aspect ratio: 4 x 3
Useful screen area	Horizontal: 12.0" (305 mm); vertical: 9.01" (229 mm)
Monitor dimensions	Width: 14.96" (380 mm); height: 11.65" (296 mm); depth: 2.64" (67 mm)
Dimensional drawing number	MS500391 (available at elotouch.com)
Optimal (native) resolution	1024 x 768 at 60, 70, or 75 Hz
Other supported resolutions	1024 x 768 at 65 Hz (Sun); 832 x 624 at 75 Hz (Mac); 800 x 600 at 56, 60, 72, or 75 Hz; 720 x 400 at 70 Hz; 720 x 350 at 70 Hz; 640 x 480 at 60, 66 (Mac), 72, or 75 Hz
Colors	16.2 million with dithering, 6-bit per color data
Brightness LCD panel LCD panel with touchscreen	250 cd/m² IntelliTouch: 230 cd/m²
Response time	25 msec (typical)
Viewing angle (from center)	Horizontal (left/right): ±85° or 170° total; vertical (up/down): ±85° or 170° total
Contrast ratio	400:1
Input video format	RGB analog
Input video signal connector	Mini D-Sub 15-Pin VGA type
Input frequency	Horizontal 31.5–60 kHz; vertical 56.3–75 Hz
Power supply	Type: internal; input (line) voltage: 100-240 VAC, 50–60 Hz
Power dissipation	30 W max.
Temperature	Operating 0°C to 50°C; storage –20°C to 60°C
Humidity	Operating 20% to 80%; storage 5% to 95%; noncondensing
Weight (approx.)	Actual: 12.13 lb (5.5 kg); shipping: 17.64 lb (8 kg)
Warranty	Monitor: 1 year Backlight lamp life: 50,000 hours to half brightness
Agency approvals	UL/cUL (*recognized component), FCC, CE, TÜV-Bauart, VCCI, MPR II, C-Tick
On-screen display (OSD)	Remote OSD with 1.8 m cable
User's controls	Remote OSD: Auto/Sel, up, down, menu; OSD controls: contrast, brightness, H/V position, auto adjust, recall defaults, color settings, color temperature, OSD position, clock, phase, information, language (English, German, Spanish, Japanese, French)
Mounting options	75 mm VESA mounting; rack-mount option; mounting brackets included; rear mount through bezel or with included brackets
Other features	ENERGY STAR; 2 stage DPMS; VESA DDC, Plug & Play; watertight minibezel to protect touch components; exclusive wiper blade for sealing

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number
IntelliTouch	Serial	C41653-000
IntelliTouch	USB	E87352-000

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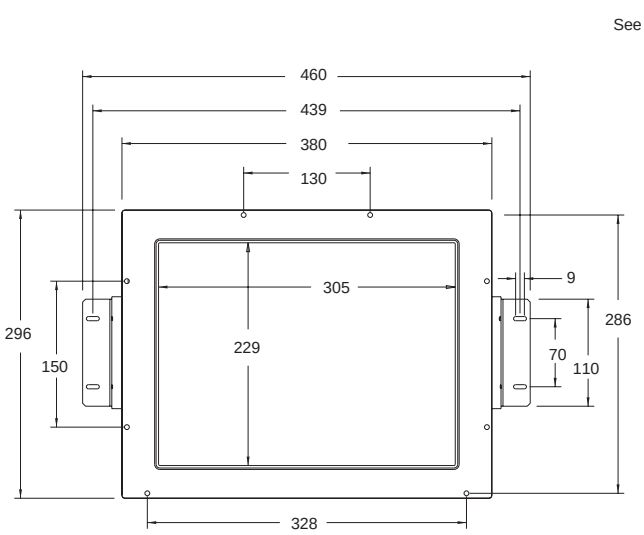

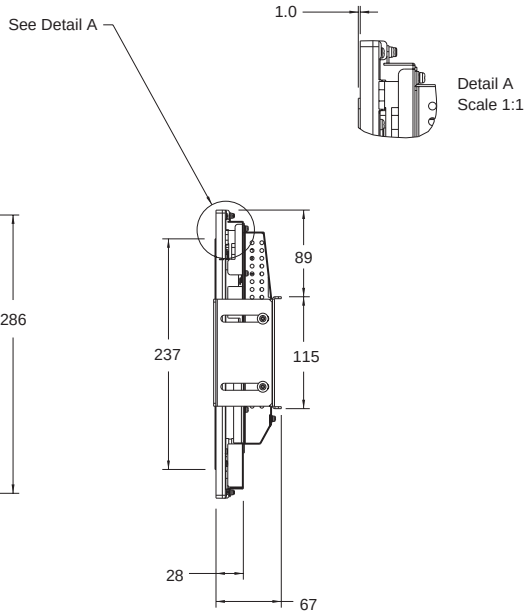

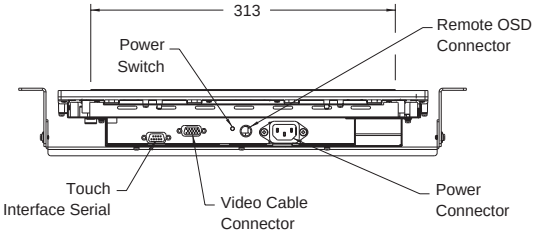

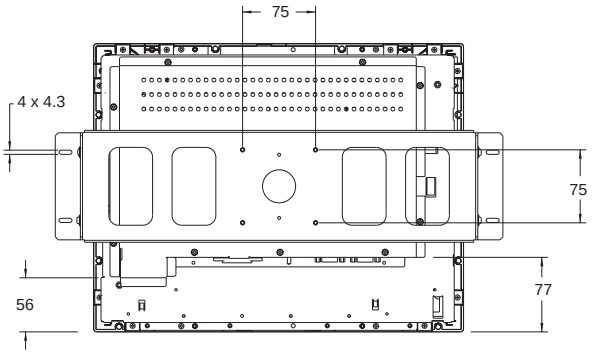

1746L

Rear Mount

1000 Series
17" LCD Touchmonitor

SPECIFICATIONS

Model	1746L
Case/Bezel color	Black
Display type	Size: 17.0" diagonal; type: active matrix TFT LCD
Useful screen area	Horizontal: 13.3" (338 mm); vertical: 10.6" (270 mm)
Monitor dimensions (dimensions shown are for horizontal bracket installation)	Width: 14.6" (371 mm); height: 15.4" (391 mm); depth: 12.4" (315 mm); height with brackets: 13.2" (335 mm); depth: 2.1" (53 mm)
Dimensional drawing number	MS500518 (available at elotouch.com)
Optimal (native) resolution	1280 x 1024
Other supported resolutions	1280 x 960 at 64 Hz; 1152 x 864 at 75 Hz; 1024 x 768 at 60, 65 (Sun), 70, or 75 Hz; 832 x 624 at 75 Hz (Mac); 800 x 600 at 56, 60, 72, or 75 Hz; 720 x 400 at 70 Hz; 720 x 350 at 70 Hz; 640 x 480 at 60, 66 (Mac), 72, or 75 Hz
Colors	16.2 million with dithering, 6 bit per color data
Brightness LCD panel LCD panel with touchscreen	260 cd/m² IntelliTouch: 239 cd/m² typical
Response time	25 msec (typical)
Viewing angle (from center)	Horizontal (left/right): ±70° or 140° total; vertical (up/down): ±70° or 140° total
Contrast ratio	450:1
Input video format	Analog (no proprietary video card needed)
Input video signal connector	Mini D-Sub 15-Pin
Input sync format	Separate horizontal and vertical sync, composite sync, sync-on-green
Input frequency	Horizontal: 31.5–80 kHz; vertical: 56.3–75 Hz
Power supply	Type: external power supply, 100–240 VAC, 50–60 Hz; monitor input voltage: 12 VDC; current: 4.16 A max.
Power dissipation	50 W max.
Temperature	Operating: 0°C to 40°C; storage: –20°C to 60°C
Humidity	Operating: 20% to 80%; storage: 10% to 90%; noncondensing
Weight (approx.)	Actual: 11 lb (5 kg); shipping: 19 lb (8.6 kg)
Warranty	Monitor: 1 year Backlight lamp life: 40,000 hours to half brightness
Agency approvals	UL, cUL, FCC, IC, CE, TÜV-GS, VCCI, C-Tick
On-screen display (OSD)	Remote OSD with 1.8 m cable
User's controls	Remote OSD: Auto/Sel, up, down, menu; OSD: contrast, brightness, H/V position, color, temperature, clock, phase, recall, language (English, German, Spanish, Japanese, French); OSD disable/enable: power
Mounting options	100 mm or 75 mm VESA mount; rear mount from top/bottom or left/right; mounting brackets included

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number
IntelliTouch	Dual serial/USB	A36843-000

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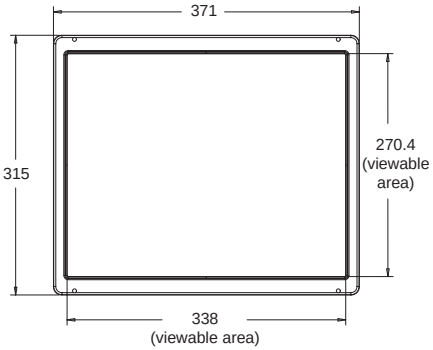
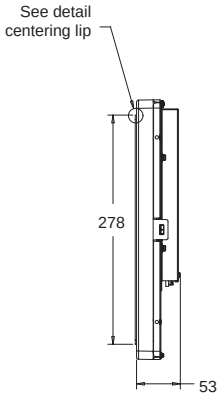
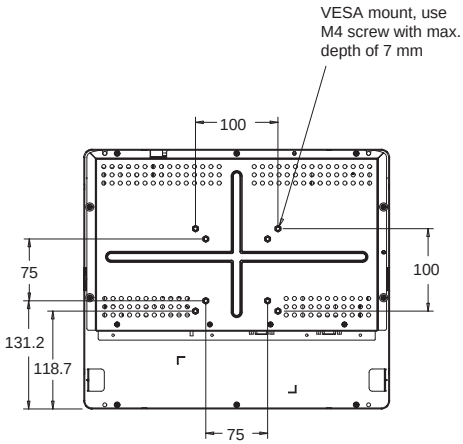
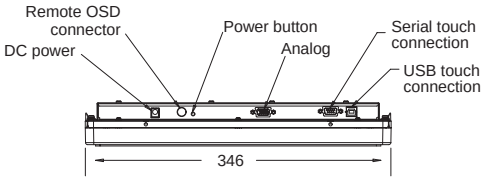
1000 Series
17" LCD Touchmonitor

Detail centering lip
Scale 2.000









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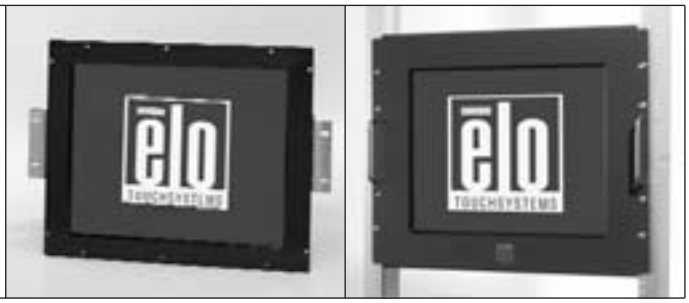
1747L Rear Mount

3000 Series 17" LCD Touchmonitor



SPECIFICATIONS

Model	1747L
Case/Bezel color	Black
Display type	Size: 17.0" diagonal; type: Active matrix TFT LCD
Useful screen area	Horizontal: 13.3" (338 mm); vertical: 10.6" (270 mm)
Monitor dimensions	Width: 16.4" (417 mm); width with bracket: 18.7" (474 mm); height: 13.4" (341 mm); depth: 2.56" (65 mm)
Dimensional drawing number	MS500485 (available at elotouch.com)
Optimal (native) resolution	1280 x 1024
Other supported resolutions	1024 x 768 at 60, 70, or 75 Hz; 832 x 624 at 75 Hz (Mac); 800 x 600 at 56, 60, 72, or 75 Hz 720 x 400 at 70 Hz; 640 x 480 at 60, 66 Hz (Mac), 72, or 75 Hz
Colors	16.7 million with dithering (6 bit)
Brightness LCD panel LCD panel with touchscreen	260 cd/m² AccuTouch: 213 cd/m² typical; CarrollTouch: 239 cd/m² typical; IntelliTouch: 239 cd/m² typical; SecureTouch: 234 cd/m² typical
Response time	25 msec (typical)
Viewing angle (from center)	Horizontal (left/right): ±70° or 140° total; vertical (up/down): ±70° or 140° total
Contrast ratio	450:1 (typical)
Input video format	Analog (no proprietary video card needed) or Digital Video Input (DVI-D)
Input video signal connector	Mini D-Sub 15-Pin; DVI-D
Input sync format	Separate horizontal and vertical sync, composite sync and sync-on-green
Input frequency	Horizontal 31.5–80 kHz; vertical 56.3–75 Hz
Power supply	Type: external power supply, 100–240 VAC, 50–60 Hz, monitor input voltage: 11.4–19.95 VDC; current (12 VDC): 4A max.; current (19 VDC): 2.65A max.
Power dissipation	50 W max.
Temperature	Operating 0°C to 40°C; storage –20°C to 60°C
Humidity	Operating 20% to 85%; storage 5% to 95%; noncondensing
Weight with all options (approx.)	Actual: 15.06 lb (6.83 kg); shipping: 24.18 lb (10.97 kg)
Warranty	Monitor: 3 years Backlight lamp life: typical 40,000 hours to half brightness
Agency approvals	UL, cUL, FCC, IC, CE, TÜV-GS, VCCI, C-Tick
On-screen display (OSD)	Remote OSD with 1.8 m cable
User's controls	Remote OSD: Auto/Sel, up, down, menu; OSD: contrast, brightness, H/V position, color, temperature, clock, phase, recall, OSD time, language (English, German, Spanish, Japanese, French); OSD disable/enable: power, volume, and/or OSD menu
Mounting options	100 mm or 75 mm VESA mount; 19" rack-mount option; mounting brackets included; rear mount through bezel or with brackets; panel-mount option

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number	Touch Technology	Touch Interface	Elo Part Number
AccuTouch	Serial	990882-001	IntelliTouch	Serial	945446-001
AccuTouch	USB	238212-001	IntelliTouch	USB	736650-001
CarrollTouch	Serial	E85776-001	SecureTouch	Serial	185914-001
CarrollTouch	USB	D45620-001	SecureTouch	USB	207124-001

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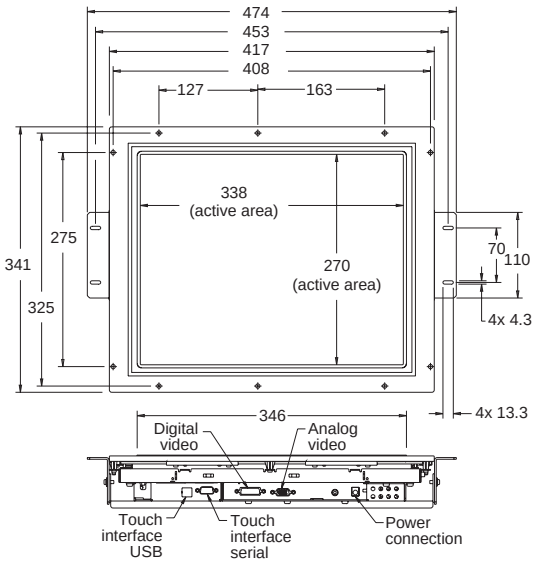
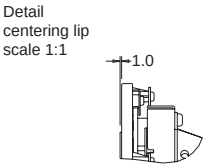
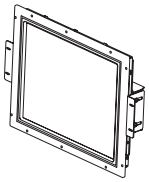
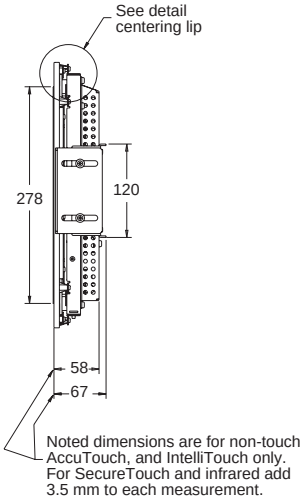
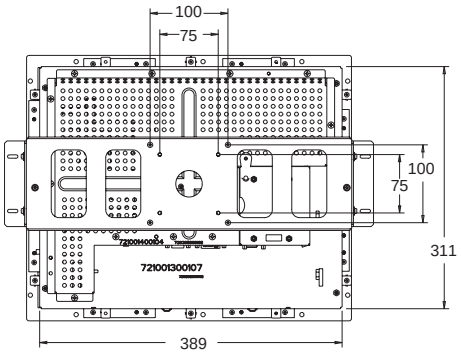
3000 Series
17" LCD Touchmonitor











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1749L

Rear Mount

3000 Series
17" LCD Touchmonitor

SPECIFICATIONS

Model	1749L
Case/Bezel color	Black
Display type	Size: 17.0" diagonal; type: active matrix TFT LCD
Useful screen area	Horizontal: 13.3" (338 mm); vertical: 10.6" (270 mm)
Monitor dimensions (dimensions shown are for horizontal bracket installation)	Width: 14.6" (371 mm); height: 15.4" (391 mm); depth: 12.4" (315 mm); height with brackets: 13.2" (335 mm); depth: 2.1" (53 mm)
Dimensional drawing number	MS500519 (available at elotouch.com)
Optimal (native) resolution	1280 x 1024
Other supported resolutions	1280 x 960 at 60 Hz; 1152 x 864 at 75 Hz; 1024 x 768 at 60, 65 (Sun), 70, or 75 Hz; 832 x 624 at 75 Hz (Mac); 800 x 600 at 56, 60, 72, or 75 Hz; 720 x 400 at 70 Hz; 720 x 350 at 70 Hz; 640 x 480 at 60, 66 (Mac), 72, or 75 Hz
Colors	16.7 million, true 8 bit data
Brightness LCD panel LCD panel with touchscreen	250 cd/m^2 IntelliTouch: 230 cd/m^2 typical
Response time	25 msec (typical)
Viewing angle (from center)	Horizontal (left/right): ±85° or 170° total; vertical (up/down): ±85° or 170° total
Contrast ratio	500:1
Input video format	Analog (no proprietary video card needed); Digital Video Input (DVI-D)
Input video signal connector	Mini D-Sub 15-Pin; DVI-D
Input frequency	Horizontal: 31.5–80 kHz; vertical: 56.3–75 Hz
Power supply	Type: external power supply, 100–240 VAC, 50–60 Hz; monitor input voltage: 12 VDC; current: 4.16 A max.
Power dissipation	50 W max.
Temperature	Operating: 0°C to 40°C; storage: –20°C to 60°C
Humidity	Operating: 20% to 80%; storage: 10% to 90%; noncondensing
Weight (approx.)	Actual: 11 lb (5 kg); shipping: 19 lb (8.6 kg)
Warranty	Monitor: 3 years Backlight lamp life: typical 40,000 hours at half brightness
Agency approvals	UL, cUL, FCC, IC, CE, TÜV-GS, VCCI, C-Tick
On-screen display (OSD)	Remote OSD with 1.8 m cable
User's controls	Remote OSD: Auto/Sel, up, down, menu; OSD: contrast, brightness, H/V position, color, temperature, clock, phase, recall, language (English, German, Spanish, Japanese, French); OSD disable/enable: power
Mounting options	100 mm or 75 mm VESA mount; rear mount from top/bottom or left/right; mounting brackets included

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number
IntelliTouch	Dual serial/USB	F13451-000

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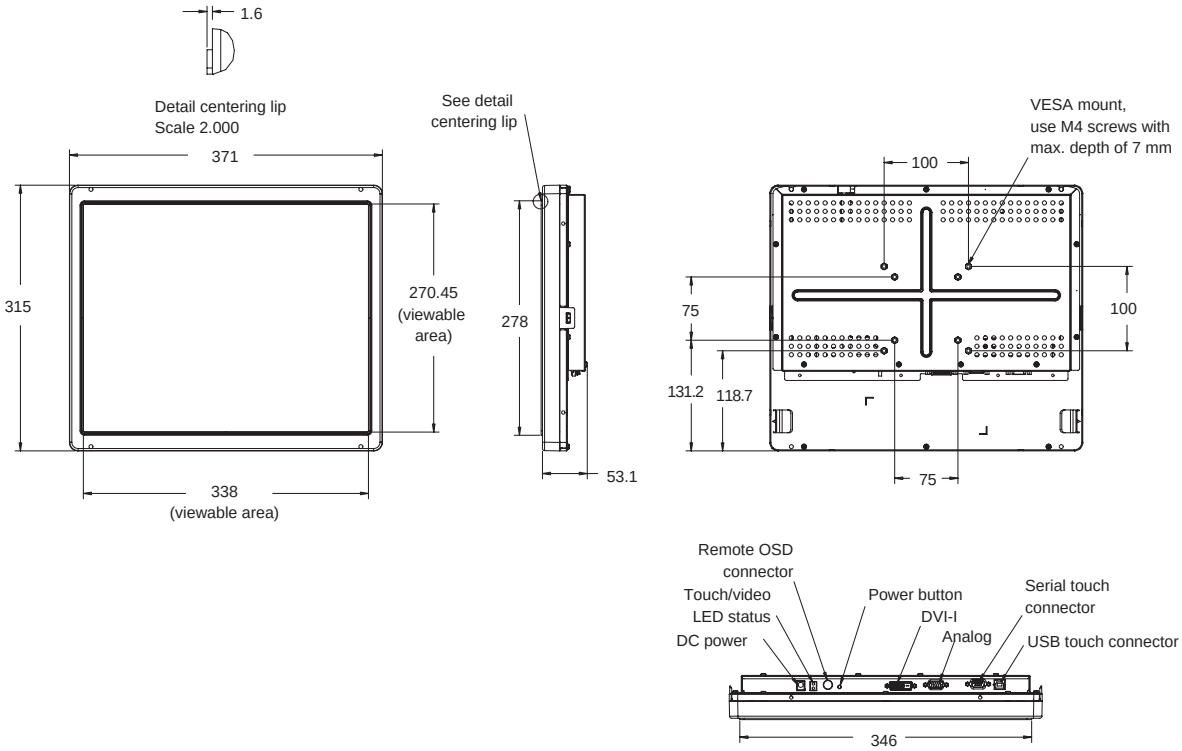

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1947L

Rear Mount

3000 Series
19" LCD Touchmonitor

SPECIFICATIONS

Model	1947L
Case/Bezel color	Black
Display type	Size: 19" diagonal; type: Active matrix TFT LCD; Aspect ratio: 5 x 4
Useful screen area	Horizontal: 14.8" (376 mm); vertical: 11.9" (301 mm)
Monitor dimensions (dimensions shown are for horizontal bracket installation)	Width: 17.1" (434 mm); width with bracket: 18.0" (456 mm); height: 14.2" (361 mm); depth: 2.16" (54.7 mm)
Dimensional drawing number	MS500441 (available at elotouch.com)
Optimal (native) resolution	1280 x 1024
Other supported resolutions	1280 x 1024 at 60 or 75 Hz; 1152 x 864 at 75 Hz; 1024 x 768 at 60, 65, or 75 Hz; 832 x 624 at 75 Hz (Mac); 800 x 600 at 56, 60, 72, or 75 Hz; 720 x 400 at 70 Hz; 640 x 480 at 60 or 75 Hz
Colors	16.7 million (8 bit)
Brightness LCD panel LCD panel with touchscreen	300 cd/m² typical IntelliTouch: 276 cd/m² typical; SecureTouch: 270 cd/m² typical; AccuTouch: 240 cd/m² typical
Response time	25 msec (typical)
Viewing angle (from center)	Horizontal (left/right): ±85° or 170° total (typical); vertical (up/down): ±85° or 170° total (typical)
Contrast ratio	700:1 (typical)
Input video format	DVI-D, analog
Input video signal connector	Mini D-Sub 15-Pin, DVI-D
Input sync format	TBD
Input frequency	Horizontal 31–80 kHz; vertical 56–75 Hz
Power supply	Type: external power supply; input (line) voltage: 100–240 VAC, 50–60 Hz; monitor input voltage: 12 V @ 3.75 A max.
Power dissipation	40 W max.
Temperature	Operating 0°C to 40°C; storage –20°C to 60°C
Humidity	Operating 20% to 80%; storage 5% to 90%; noncondensing
Weight with all options (approx.)	Actual 21 lb (9.5 kg); shipping 29 lb (13.2 kg)
Warranty	Monitor: 3 years Backlight lamp life: typical 50,000 hours to half brightness
Agency approvals	UL/cUL, TÜV-Bauart, CE, FCC/IC/VCCI/C-Tick Class B, CB Report/Certificate, Section 508
On-screen display (OSD)	Remote OSD with 1.8 m cable
User's controls	Remote OSD: Auto/Sel, up, down, menu; OSD: brightness, contrast, color temperature, H/V position, phase/clock, recall, auto-adjust, input select, language (English, Spanish, German, French, Italian, Swedish, Finnish, Danish, Portuguese, Dutch, Japanese)
Mounting options	100 mm or 75 mm VESA mount; mounting brackets included; rear mount from top/bottom or left/right; panel cutout

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number
AccuTouch	Serial	D52226-000
AccuTouch	USB	A50245-000
IntelliTouch	Serial	229628-000
IntelliTouch	USB	C71685-000
SecureTouch	Serial	928182-000
SecureTouch	USB	A91313-000

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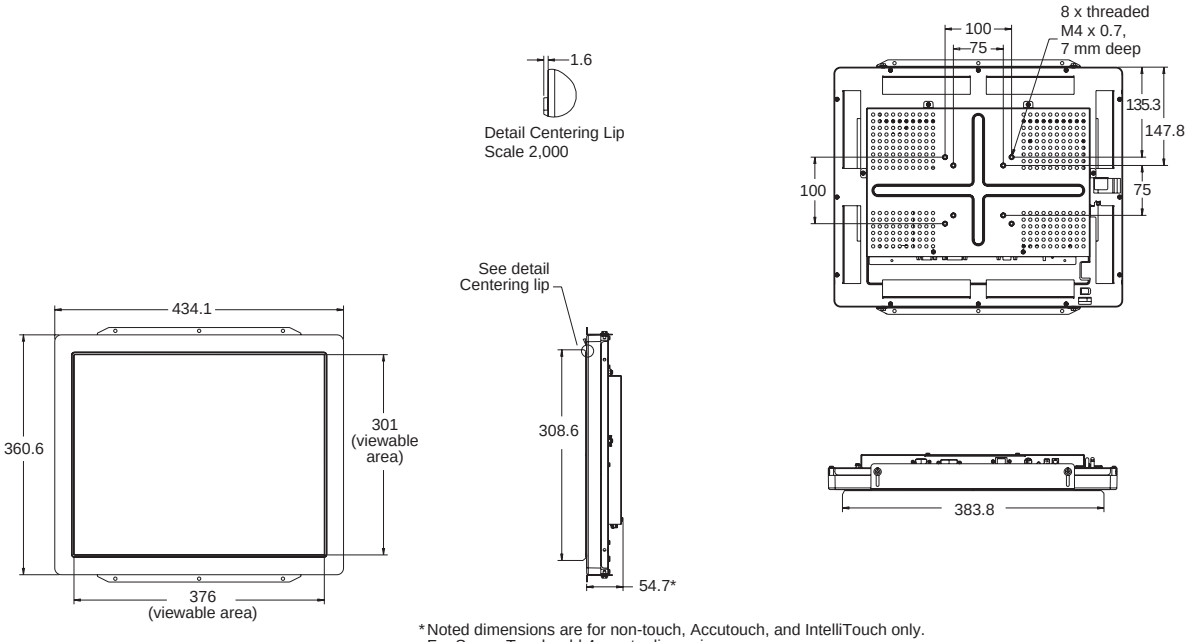
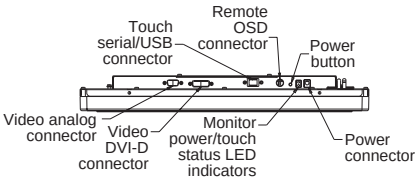
3000 Series
19" LCD Touchmonitor



*Noted dimensions are for non-touch, Accutouch, and IntelliTouch only.
For SecureTouch add 4 mm to dimension.



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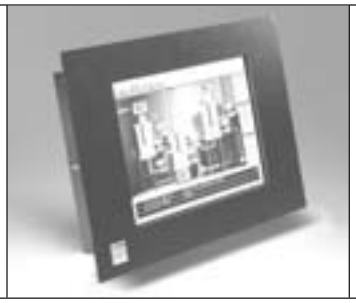
1266L

Panel Mount

3000 Series
12" LCD Touchmonitor



SPECIFICATIONS

Model	1266L
Case/Bezel color	Black, metal bezel
Display	Size: 12.1" diagonal; type: Active matrix TFT LCD
Useful screen area	Horizontal: 9.7" (246 mm); vertical: 7.3" (184 mm)
Monitor dimensions	Width: 15.2" (386 mm); height: 11.4" (290 mm); depth: 2.5" (63 mm)
Dimensional drawing number	MS500131 (available at elotouch.com)
Optimal (native) resolution	800 x 600 at 60, 72, or 75 Hz
Other supported resolutions	640 x 480 at 60, 72, or 75 Hz
Colors	6-bit, 262,144
Brightness LCD panel LCD panel with touchscreen	300 cd/m² AccuTouch: 240 cd/m² typical; IntelliTouch/SecureTouch: 275 cd/m²
Response time	TBD
Viewing angle (from center)	Horizontal (left/right): ±60° or 120° total; vertical (up/down): 40°/55° or 95° total
Contrast ratio	200:1
Input video format	VGA/SVGA analog
Input video signal connector	TBD
Input frequency	Horizontal: 25–60 Hz; vertical: 56–75 Hz
Power supply	Type: 100–240 VAC, 4 amp max. 50–60 Hz
Power dissipation	TBD
Temperature	Operating 0°C to 50°C; storage –25°C to 60°C
Humidity	Operating 90%; noncondensing
Weight (approx.)	Actual 11.9 lb (5.4 kg); shipping 18.9 lb (8.6 kg)
Warranty	Monitor: 3 years Backlight lamp life: 50,000 hours at full brightness
Agency approvals	UL, cUL, FCC, CE, TÜV
On-screen display (OSD)	Digital OSD
User's controls	Back: exit, up, down, menu; OSD: brightness, contrast, phase, H/V position, horizontal size (clock), sharpness, OSD position, OSD time out, language (English, French, Italian, German, Spanish, Danish), smart settings
Mounting options	Panel mount; mounting template included

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number
AccuTouch	Serial	D24983-000
AccuTouch	USB	A63930-000
IntelliTouch	Serial	D62359-000
IntelliTouch	USB	E57241-000
SecureTouch	Serial	F27166-000
SecureTouch	USB	169442-000

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Panel Mount

1545L

3000 Series
15" LCD Touchmonitor

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SPECIFICATIONS

Model	1545L
Case/Bezel color	Black
Display type	Size: 15" diagonal; type: Active matrix TFT LCD; aspect ratio: 4 x 3
Useful screen area	Horizontal: 11.9" (304 mm); vertical: 8.98" (228 mm)
Monitor dimensions	Width with bracket: 18.1" (460 mm); height: 11.6" (296 mm); depth with bracket: 2.83" (72 mm)
Dimensional drawing number	MS500108 (available at elotouch.com)
Optimal (native) resolution	1024 x 768 at 60, 70, or 75 Hz
Other supported resolutions	1024 x 768 at 65 Hz (Sun); 832 x 624 at 75 Hz (Mac); 800 x 600 at 56, 60, 72, and 75 Hz; 720 x 400 at 70 Hz; 720 x 350 at 70 Hz; 640 x 480 at 60, 66 (Mac), 72 and 75 Hz
Colors	16 million
Brightness LCD panel LCD panel with touchscreen	350 cd/m² IntelliTouch: 322 cd/m² typical
Response time	25 msec
Viewing angle (from center)	Horizontal (left/right): ±75° or 150° total; vertical (up/down): 75°/50° or 125° total
Contrast ratio	500:1
Input video format	Analog (no proprietary video card needed)
Input video signal connector	Mini D-Sub 15-Pin VGA type
Input frequency	Horizontal 31.5–60 kHz; vertical 56–75 Hz
Power supply	Type: Internal power supply; input (line) voltage: 100–240 VAC, 50–60 Hz
Power dissipation	TBD
Temperature	Operating 0°C to 50°C; storage –30°C to 60°C
Humidity	Operating 20% to 80%; storage 5% to 95%; noncondensing
Weight (approx.)	Actual 10.85 lb (4.92 kg); shipping 16.9 lb (7.66 kg)
Warranty	Monitor: 3 years Backlight lamp life: 40,000 hours to half brightness
Agency approvals	UL/cUL, TÜV-GS, CE, FCC/IC/VCCI/C-Tick Class B
On-screen display	Remote OSD with 1.8 m cable
User's controls	Remote OSD: Auto/Sel, up, down, menu; OSD: contrast, brightness, H/V position, color, temperature, clock, phase, recall, OSD time, language (English, German, Spanish, Japanese, French); OSD disable/enable: power, volume, and/or OSD controls
Mounting options	75 mm VESA mount; panel cut-out; mounting brackets included

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number
IntelliTouch	Serial	E70581-000
IntelliTouch	USB	518812-000

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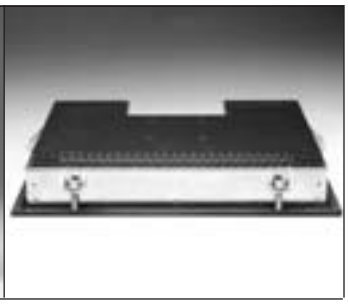
1566L Panel Mount

3000 Series 15" LCD Touchmonitor



SPECIFICATIONS

Model		1566L
Case/Bezel color		Black, metal bezel with metal back
Display		Size: 15" diagonal; type: Active matrix TFT LCD; aspect ratio: 4 x 3
Useful screen area		Horizontal: 11.97" (304 mm); vertical: 8.9" (228 mm)
Monitor dimensions		Width: 17.57" (446 mm); height 13.99" (355 mm); depth: 2.52" (64 mm)
Dimensional drawing number		MS500249 (available at elotouch.com)
Optimal (native) resolution		1024 x 768 at 60, 70, or 75 Hz
Other supported resolutions		1024 x 768 at 65 Hz (Sun); 832 x 624 at 75 Hz (Mac); 800 x 600 at 56, 60, 72, or 75 Hz; 720 x 400 at 70 Hz; 720 x 350 at 70 Hz; 640 x 480 at 60, 66 (Mac), 72, or 75 Hz
Colors		16 million
Brightness	LCD panel	350 cd/m^2
	LCD panel with touchscreen	AccuTouch: 287 cd/m^2
Response time		25 msec
Viewing angle (from center)		Horizontal (left/right): ±75° or 150° total; vertical (up/down): 75°/50° or 125° total
Contrast ratio		500:1
Input video format		Analog (no proprietary video card needed)
Input video signal connector		Mini D-Sub 15-Pin VGA type
Input frequency		Horizontal 31.5–60 kHz; vertical 56–75 Hz
Power supply		Type: Internal power supply; input (line) voltage: 100–240 VAC, 50–60 Hz
Power dissipation		TBD
Temperature		Operating 0°C to 50°C; storage –30°C to 60°C
Humidity		Operating 20% to 80%; storage 5% to 95°C; noncondensing
Weight (approx.)		Actual 20.0 lb (9.0 kg); shipping 30.0 lb (14.0 kg)
Warranty		Monitor: 3 years Backlight lamp life: 40,000 hours to half brightness
Agency approvals		UL, cUL, UL Certified NEMA 4/4x/12, IP65, FCC, CE, TÜV-Bauart, VCCI, C-Tick
On-screen display		Remote OSD with 1.8 m cable
User's controls		Remote OSD: Auto/Sel, up, down, menu; OSD: contrast, brightness, H/V position, color, temperature, clock, phase, recall, OSD time, language (English, German, Spanish, Japanese, French); OSD disable/enable: power, volume and/or OSD menu
Mounting options		75 mm VESA mount; panel cut-out; mounting brackets included
Other features		Exclusive wiper blade for sealing

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number
AccuTouch	Serial	198846-000

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Panel Mount

1567L

3000 Series
15" LCD Touchmonitor

SPECIFICATIONS

Model	1567L
Case/Bezel color	Black
Display type	Size: 15.0" diagonal; type: Active matrix TFT LCD; aspect ratio: 4 x 3
Useful screen area	Horizontal: 11.9" (304 mm); vertical: 8.9" (228 mm)
Monitor dimensions	Width with bracket: 18.1" (460 mm); height: 11.6" (296 mm); depth with bracket: 2.83" (72 mm)
Dimensional drawing number	MS500235 (available at elotouch.com)
Optimal (native) resolution	1024 x 768 at 60, 70, or 75 Hz
Other supported resolutions	1024 x 768 at 65 Hz (Sun); 832 x 624 at 75 Hz (Mac); 800 x 600 at 56, 60, 72, or 75 Hz 720 x 400 at 70 Hz; 720 x 350 at 70 Hz; 640 x 480 at 60, 66 (Mac), 72 and 75 Hz
Colors	16 million
Brightness LCD panel LCD panel with touchscreen	350 cd/m² AccuTouch: 287 cd/m² typical; IntelliTouch: 322 cd/m² typical; SecureTouch: 315 cd/m² typical
Viewing angle	25 msec
Viewing angle (from center)	Horizontal (left/right): ±75° or 150° total; vertical (up/down) 75°/50° or 125° total
Contrast ratio	500:1
Input video format	Analog (no proprietary video card needed)
Input video signal connector	Mini D-Sub 15-Pin VGA type
Input frequency	Horizontal 31.5–60 kHz; vertical 56–75 Hz
Power supply	Type: internal power supply; input (line voltage): 100–240 VAC, 50–60 Hz
Power dissipation	TBD
Temperature	Operating 0°C to 50°C; storage –30°C to 60°C
Humidity	Operating 20% to 80%; storage 5% to 95%; noncondensing
Weight (approx.)	Actual 10.85 lb (4.92 kg); shipping 16.9 lb (7.66 kg)
Warranty	Monitor: 3 years Backlight lamp life: 40,000 hours to half brightness
Agency approvals	UL/cUL, TÜV-GS, CE, FCC/IC/VCCI/C-Tick Class B
On-screen display	Remote OSD with 1.8 m cable
User's controls	Remote OSD: Auto/Sel, up, down, menu; OSD: contrast, brightness, H/V position, color, temperature, clock, phase, recall, OSD time, language (English, German, Spanish, Japanese, French); OSD disable/enable: power, volume, and/or OSD menu
Mounting options	75 mm VESA mount; panel cut-out; mounting brackets included

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number
AccuTouch	Serial	057710-000
AccuTouch	USB	432574-000
IntelliTouch	Serial	046906-000
IntelliTouch	USB	252302-000
SecureTouch	Serial	463718-000
SecureTouch	USB	073496-000

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- Stock quantities may be limited. Larger quantities are available within one week.
- For Product Agency Certifications refer to our Web site.

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1525C/1526C Desktop

3000 Series
15" CRT Touchmonitors

SPECIFICATIONS

Model		1525C/1526C
Case/Bezel color		Beige/Dark gray
Display		Size: 15"; type: FST CRT
Image size, nominal	Default	Horizontal: 10.2" (260 mm); vertical: 7.7" (195 mm)
Monitor dimensions		Width 14.3" (362 mm); height (including base) 12.9" (328 mm); depth (including base) 15.2" (385 mm)
Dimensional drawing number		MS500217 (available at elotouch.com)
Highest recommended resolution		800 x 600 at 85 Hz
Resolutions presets (VESA timing)		1024 x 768 at 60, 70, 75, or 85 Hz 800 x 600 at 60, 72, 75, or 85 Hz 640 x 480 at 60, 72, 75, or 85 Hz
Dot pitch, nominal		0.28 mm
Video bandwidth		67 MHz
Scanning frequency		Horizontal: 30–70 kHz; vertical 50–160 Hz
Input video format		Analog (no proprietary video card needed)
Input video signal connector		Mini D-Sub 15-Pin (female)
Power supply		90–264 VAC, 50–60 Hz
Power dissipation		70 W max.
Temperature		Operating 0°C to 40°C; storage –40°C to 60°C
Humidity		Operating 10% to 90%; storage 10% to 90%; noncondensing
Weight (approx.)		Net: 29 lb (13.0 kg); shipping 33 lb (15.0 kg)
Warranty		Monitor: 2 years
Agency approvals		UL, cUL, FCC, CE, CISPR22 Class B, TÜV-GS, MPR II (ITE per IEC/EN 60950)
On-screen display (OSD)		Digital OSD with lockout capability
Mounting options		Rigid (removable) base
Other features		VESA DDC 1/2 B Plug and Play

ORDERING INFORMATION

Color	Touch Technology	Touch Interface	Elo Part Number
Beige	iTouch	Dual serial/USB	396036-001
Dark gray	iTouch	Dual serial/USB	139862-001

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Desktop 1725C/1726C

3000 Series
17" CRT Touchmonitors

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SPECIFICATIONS

Model		1725C/1726C
Case/Bezel color		Beige/Dark gray
Display		Size: 17"; type: FST CRT
Image size, nominal	Default	Horizontal: 11.8" (300 mm); vertical: 8.9" (225 mm)
Monitor dimensions		Width: 15.9" (404 mm); height (including base): 14.2" (360 mm); depth (including base): 16.8" (426 mm)
Dimensional drawing number		MS500218 (available at elotouch.com)
Highest recommended resolution		1024 x 768 at 85 Hz
Resolution presets (VESA timing)		1280 x 1024 at 60 Hz; 1152 x 864 at 75 Hz; 1024 x 768 at 60, 70, 75, or 85 Hz; 800 x 600 at 60, 72, 75, or 85 Hz; 640 x 480 at 60, 72, 75, or 85 Hz
Dot pitch, nominal		0.27 mm
Video bandwidth		67 MHz
Scanning frequency		Horizontal: 30–70 kHz; vertical: 50–160 Hz
Input video format		Analog (no proprietary video card needed)
Input video signal connector		Mini D-Sub 15-Pin (female)
Power supply		90–264 VAC, 50–60 Hz
Power dissipation		75 W max.
Temperature		Operating 0°C to 40°C; storage –40°C to 60°C
Humidity		Operating 10% to 90%; storage 10% to 90%; noncondensing
Weight (approx.)		Net: 32 lb (14.5 kg); Shipping: 37 lb (17.0 kg)
Warranty		Monitor: 2 years
Agency Approvals		UL, cUL, FCC, CE, CISPR22 Class B, TÜV-GS, MPR II (ITE per IEC/EN 60950)
On-screen display (OSD)		Digital OSD with lockout capability
Mounting options		Rigid (removable) base
Other features		VESA DDC 1/2 B Plug and Play

ORDERING INFORMATION

Color	Touch Technology	Touch Interface	Elo Part Number
Beige	iTouch	Dual serial/USB	045182-001
Dark gray	iTouch	Dual serial/USB	D95678-001

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1545C

Rear Mount

3000 Series
15" CRT Touchmonitor

SPECIFICATIONS

Model		1545C
Case/Bezel color		Galvanized sheet metal enclosure, black plastic square kiosk bezel
Display		Size: 15"; type: FST CRT
Image size, nominal	Default	Horizontal: 10.6" (270 mm); vertical: 8.0" (202 mm)
Monitor dimensions		Width: 17.1" (434 mm); height: 12.3" (313 mm); depth: 15.0" (381 mm)
Dimensional drawing number		MS500333 (available at elotouch.com)
Highest recommended resolution		800 x 600 at 85 Hz
Resolution presets		800 x 600 at 85 Hz 640 x 480 at 60 Hz
Dot pitch, nominal		0.28 mm
Video bandwidth		65 MHz
Scanning frequency		Horizontal: 30–55 kHz Vertical: 50–160 Hz
Input video format		Analog (no proprietary video card needed)
Input video signal connector		Mini D-Sub 15-Pin (female)
Power supply		100–240 VAC, 50/60 Hz
Power dissipation		60 W typical, 70 W max.
Temperature		Operating 5°C to 55°C; storage –20°C to 65°C
Humidity		Operating 10% to 85%; storage 5% to 95%; noncondensing
Weight (approx.)		Actual 36 lb (16.3 kg); shipping 44 lb (20 kg)
Warranty		Monitor: 2 years
Agency approvals		FCC/ICES-03 Class B, UL/cUL Recognized Component, TÜV-Bauart, Demko, CB (all members), AR/S, CE, VCCI, C-Tick, BSMI, Nevada SR 14, MPR II, DHHS
On-screen display (OSD)		Multilingual OSD
Other features		ENERGY STAR; 2 stage DPMS; VESA DDC Plug and Play

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number
iTouch	Serial	C11285-000
iTouch	USB	F45900-000

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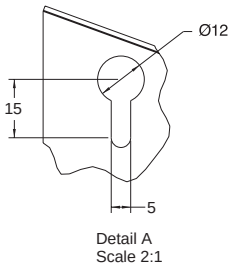
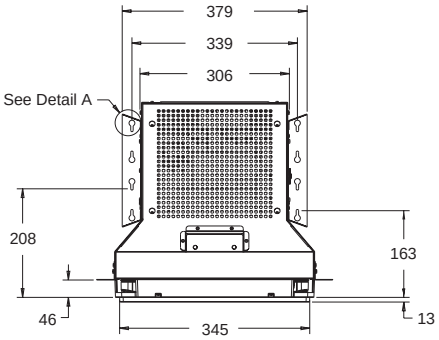
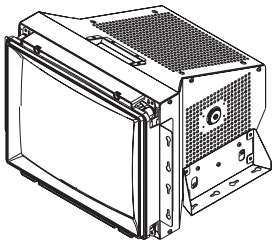
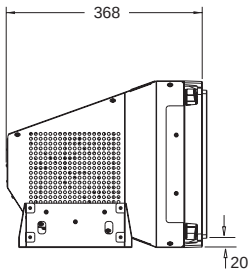
3000 Series
15" CRT Touchmonitor

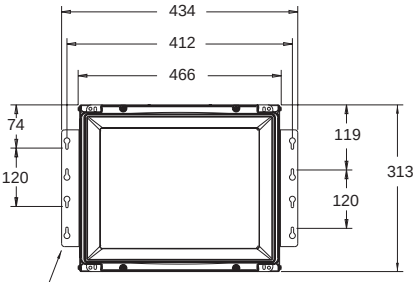


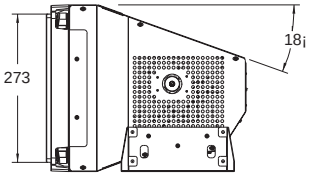
Detail A
Scale 2:1

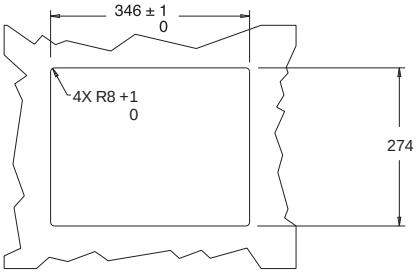




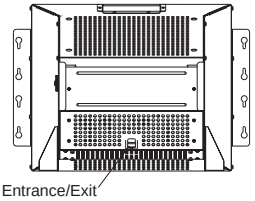








Cutout View



Cable Entrance/Exit

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1745C

Rear Mount

3000 Series
17" CRT Touchmonitor

SPECIFICATIONS

Model		1745C
Case/Bezel color		Galvanized sheet metal enclosure, black plastic square kiosk bezel
Display		Size: 17"; type: FST CRT
Image size, nominal	Default	Horizontal: 11.8" (300 mm); vertical: 8.9" (225 mm)
Monitor dimensions		Width: 19.1" (485 mm); height: 13.5" (343 mm); depth: 16.3" (413 mm)
Dimensional drawing number		MS500332 (available at elotouch.com)
Highest recommended resolution		1024 x 768 at 85 Hz (PC)
Resolution presets		1024 x 768 at 85 Hz; 800 x 600 at 85 Hz; 640 x 480 at 60 Hz
Dot pitch, nominal		0.27 mm
Video bandwidth		100 MHz
Scanning frequency		Horizontal: 30–70 kHz; vertical: 50–160 Hz
Input video format		Analog (no proprietary video card needed)
Input video signal connector		Mini D-Sub 15-Pin (female)
Power supply		100–240 VAC, 50/60 Hz
Power dissipation		65 W typical, 75 W max.
Temperature		Operating 5°C to 55°C; storage –20°C to 65°C
Humidity		Operating 10% to 80%; storage 5% to 95%; noncondensing
Weight (approx.)		Actual 44 lb (20 kg); shipping 52 lb (23.6 kg)
Warranty		Monitor: 2 years
Agency approvals		FCC/ICES-03 Class B, UL/cUL Recognized Component, TÜV-Bauart, Demko, CB (all members), AR/S, CE, VCCI, C-Tick, BSMI, Nevada SR 14, MPR II, DHHS
On-screen display (OSD)		Multilingual OSD
Other features		ENERGY STAR; 2 stage DPMS; VESA DDC Plug and Play

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number
iTouch	Serial	E64636-000
iTouch	USB	C21634-000

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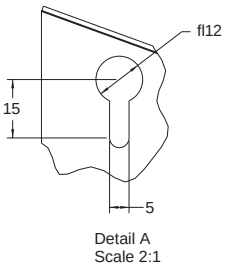
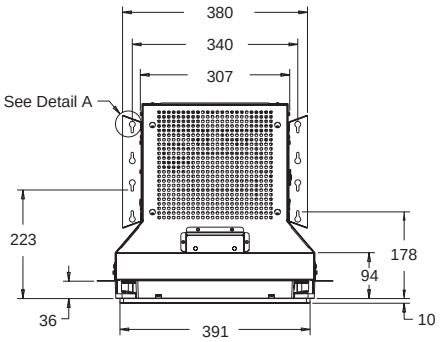
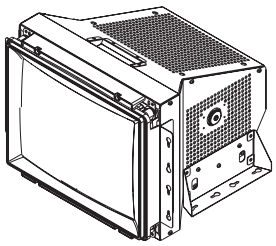
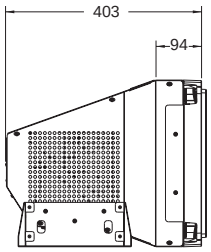
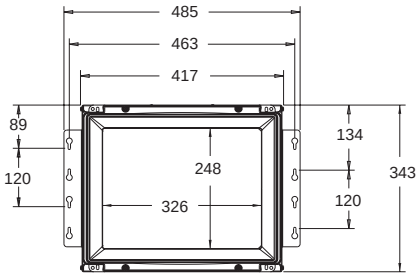


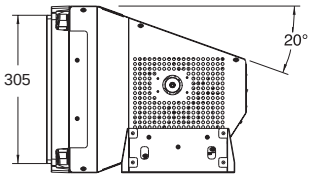
Detail A
Scale 2:1

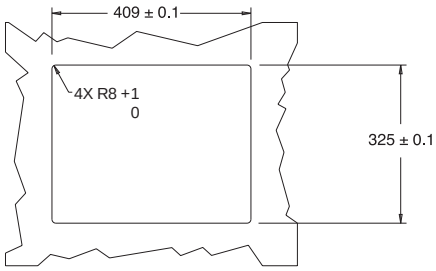




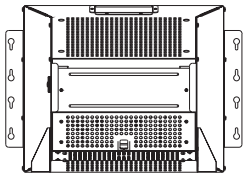








Cutout View



Cable Entrance/Exit

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1945C

Rear Mount

3000 Series
19" CRT Touchmonitor

SPECIFICATIONS

Model		1945C
Case/Bezel color		Galvanized sheet metal enclosure, black plastic square kiosk bezel
Display		Size: 19"; type: FST CRT
Image size, nominal	Default	Horizontal: 14.2" (360 mm); vertical: 10.6" (270 mm)
Monitor dimensions		Width: 20.1" (510 mm); height: 14.7" (374 mm); depth: 17.6" (447 mm)
Dimensional drawing number		MS500331 (available at elotouch.com)
Highest recommended resolution		1024 x 768 at 85 Hz
Resolution presets		1024 x 768 at 85 Hz; 800 x 600 at 85 Hz; 640 x 480 at 60 Hz
Dot pitch, nominal		0.25 mm
Video bandwidth		100 MHz
Scanning frequency		Horizontal: 30–70 kHz; vertical: 50–160 Hz
Input video format		Analog (no proprietary video card needed)
Input video signal connector		Mini D-Sub 15-Pin (female)
Power supply		100–240 VAC, 50/60 Hz
Power dissipation		75 W typical, 85 W max.
Temperature		Operating 5°C to 55°C; storage –20°C to 65°C
Humidity		Operating 10% to 80%; storage 5% to 95%
Weight (approx.)		Actual 52 lb (23.6 kg); shipping 62 lb (28.1 kg)
Warranty		Monitor: 2 years
Agency approvals		FCC/ICES-03 Class B, UL/cUL Recognized Component, TÜV-Bauart, Demko, CB (all members), AR/S, CE, VCCI, C-Tick, BSMI, Nevada SR 14, MPR II, DHHS
On-screen display (OSD)		Multilingual OSD
Other features		ENERGY STAR; 2 stage DPMS; VESA DDC Plug and Play

ORDERING INFORMATION

Touch Technology	Touch Interface	Elo Part Number
iTouch	Serial	E46297-000
iTouch	USB	A60266-000

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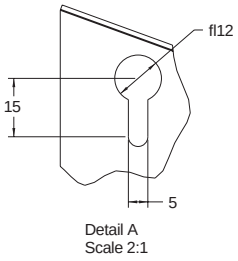
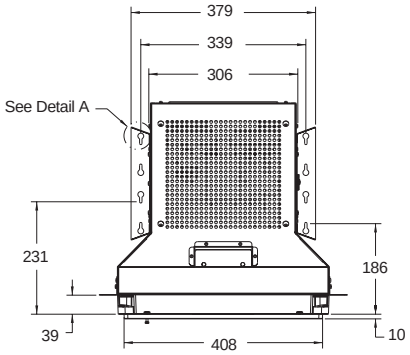
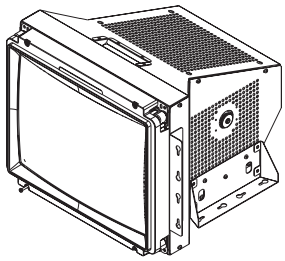
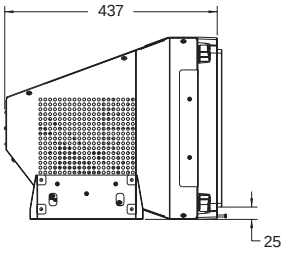
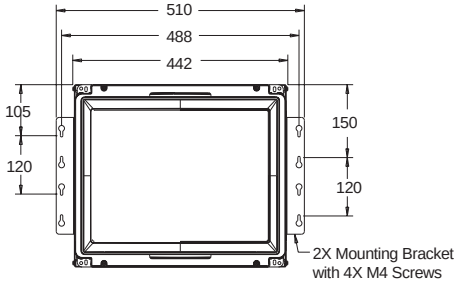
3000 Series
19" CRT Touchmonitor

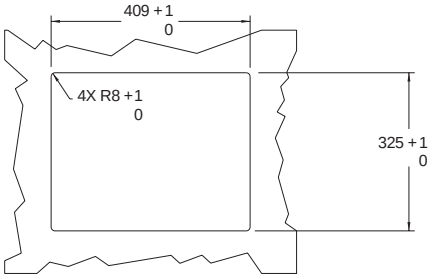


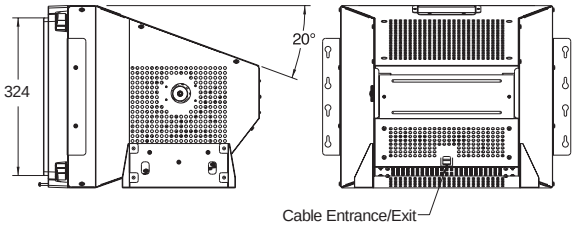












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1587C

Open Frame

3000 Series
15" CRT Touchmonitor

SPECIFICATIONS

Model		1587C
Case/Bezel color		Metal open-frame, black
Display		Size: 15"; type: FST CRT
Image size, nominal	Default	Horizontal: 10.6" (270 mm); vertical: 8.0" (202 mm)
Monitor dimensions		Width: 13.8" (351.2 mm); height: 12.3" (313 mm); depth: 14.8" (375 mm)
Dimensional drawing number		MS500211 (available at elotouch.com)
Highest recommended resolution		800 x 600 at 85 Hz
Resolution presets		800 x 600 at 85 Hz (VESA); 640 x 480 at 60 Hz (VGA)
Dot pitch, nominal		0.28 mm
Video bandwidth		65 MHz (–3 db)
Scanning frequency		Horizontal: 30–55 kHz; vertical: 50–160 Hz
Input video format		Analog
Input video signal connector		Mini D-Sub 15-Pin (female)
Input power connector		Universal MATE-N-LOK, AMP P/N 350766
Power supply		100–240 VAC, 50–60 Hz
Power dissipation		60 W typical, 65 W max.
Temperature		Operating 5°C to 55°C; storage –20°C to 65°C
Humidity		Operating 10% to 80%; noncondensing
Weight (approx.)		Actual 25.8 lb (11.7 kg); shipping 31.3 lb (14.2 kg)
Agency approvals		FCC/ICES-03 Class B, UL/cUL recognized component, TÜV-Bauart, CE, VCCI, C-Tick, MPR II, DHHS, Demko
On-screen display (OSD)		Multilingual OSD
Other features		ENERGY STAR; VESA DPMS; VESA DDC 1/2 B Plug and Play

ORDERING INFORMATION: TOUCHMONITOR AND ACCESSORIES

Touch Technology	Touch Interface	Elo Part Number
iTouch	Serial	A65341-000

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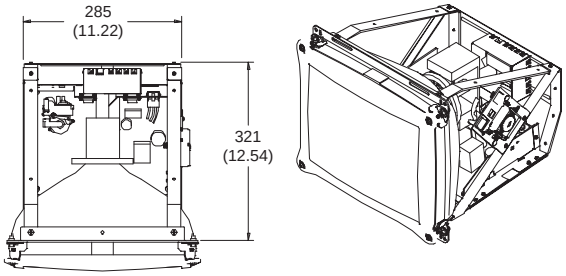
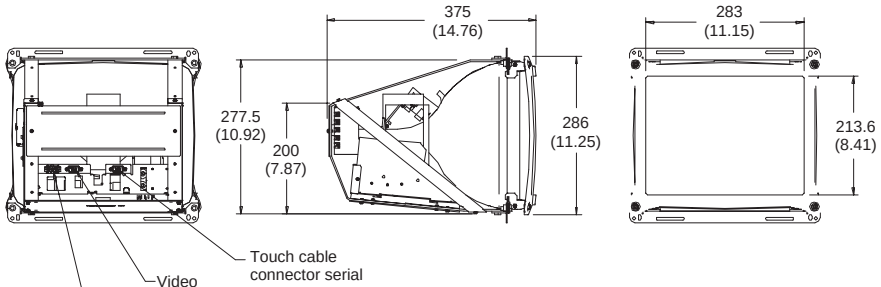
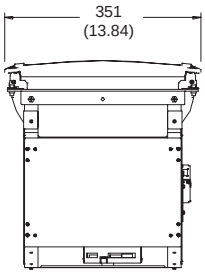
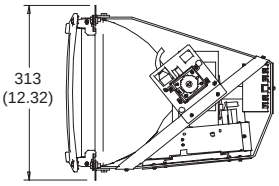
3000 Series
15" CRT Touchmonitor









entuitive
Touchmonitors

1787C

Open Frame

3000 Series
17" CRT Touchmonitor

SPECIFICATIONS

Model	1787C
Case/Bezel color	Metal open-frame, black
Display	Size: 17"; type: FST CRT
Image size	Horizontal: 11.8" (300 mm); vertical: 8.9" (225 mm)
Monitor dimensions	Width: 15.6" (397.2 mm); height: 13.5" (342.6 mm); depth: 15.9" (405 mm)
Dimensional drawing number	MS500213 (available at elotouch.com)
Highest recommended resolution	1024 x 768 at 85 Hz
Resolution presets	1024 x 768 at 85 Hz (VESA); 800 x 600 at 85 Hz VESA); 640 x 480 at 60 Hz (VGA)
Dot pitch, nominal	0.27 mm
Video bandwidth	100 MHz (–3 db)
Scanning frequency	Horizontal: 30–70 kHz; vertical: 50–160 Hz
Input video format	Analog
Input video signal connector	Mini D-Sub 15-Pin (female)
Input power connector	Universal MATE-N-LOK, AMP P/N 350766
Power supply	100–240 VAC, 50–60 Hz
Power dissipation	65 W typical, 75 W max.
Temperature	Operating 5°C to 55°C; storage –20°C to 60°C
Humidity	Operating 10% to 80%; noncondensing
Weight (approx.)	Actual 27.8 lb (12.6 kg); shipping 34.4 lb (15.6 kg)
Agency approvals	FCC/ICES-03 Class B, UL/cUL recognized component, TÜV-Bauart, CE, VCCI, C-Tick, MPR II, DHHS, Demko
On-screen display (OSD)	Multilingual OSD
Other features	ENERGY STAR; VESA DPMS; VESA 1/2 B DDC Plug and Play

ORDERING INFORMATION: TOUCHMONITOR AND ACCESSORIES

Touch Technology	Touch Interface	Elo Part Number
iTouch	Serial	375460-000
iTouch	USB	A24302-000

- Users should independently evaluate the suitability of the product for their application.
- All prices, models, and availability subject to change without notice.
- Stock quantities may be limited. Larger quantities are available within one week.
- For Product Agency Certifications refer to our Web site.

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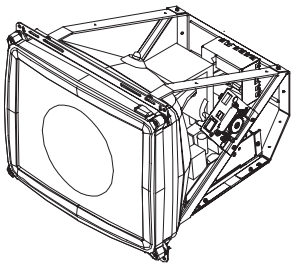
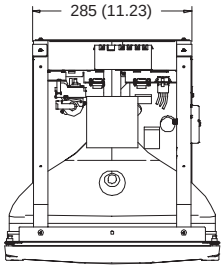
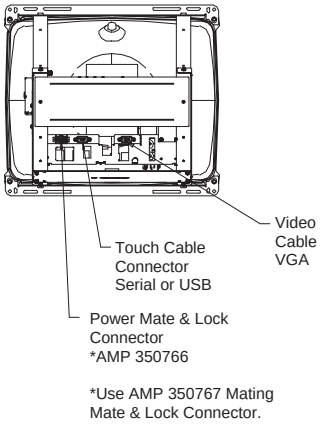
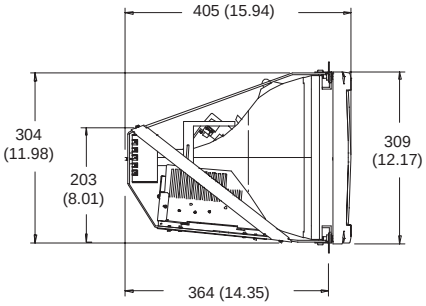
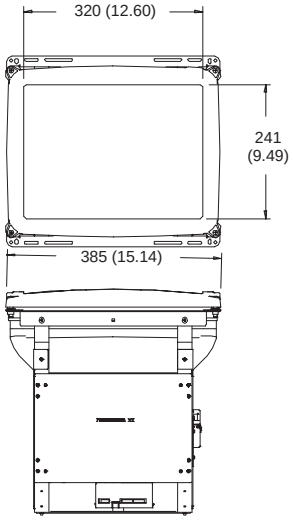
3000 Series
17" CRT Touchmonitor

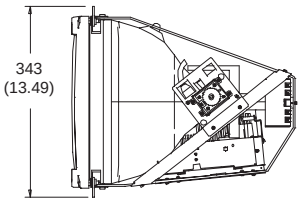












entuitive
Touchmonitors

1788C

Open Frame

3000 Series 17" True Flat CRT Touchmonitor

SPECIFICATIONS

Model	1788C
Case/Bezel color	Metal open-frame, black
Display	Size: 17"; type: True flat
Image size	Horizontal: 11.8" (300 mm); vertical: 8.9" (225 mm)
Monitor dimensions	Width: 15.9" (403 mm); height: 13.5" (343 mm); depth: 16.1" (410 mm)
Dimensional drawing number	MS500315 (available on elotouch.com)
Highest recommended resolution	1024 x 768 at 85 Hz
Resolution presets	1024 x 768 at 85 Hz; 800 x 600 at 85 Hz; 640 x 480 at 60 Hz
Dot pitch, nominal	0.25 mm
Video bandwidth	100 MHz
Scanning frequency	Horizontal 30–70 kHz; vertical 50–160 Hz
Input video format	Analog (no proprietary video card needed)
Input video signal connector	Mini D-Sub 15-Pin (female)
Input power connector	Universal MATE-N-LOK, AMP P/N 350766
Power supply	100–240 VAC, 50–60 Hz
Power dissipation	65 W typical, 75 W max.
Temperature	Operating 5°C to 55°C; storage –20°C to 65°C
Humidity	Operating 10% to 80%; storage 5% to 95%; noncondensing
Weight (approx.)	Actual 37.5 lb (17.0 kg); shipping 45.0 lb (20.4 kg)
Agency approvals	FCC/ICES-03 Class B, UL/cUL recognized component, TÜV-Bauart, CE, VCCI, C-Tick, MPR II, DHHS, Demko
On-screen display (OSD)	Multilingual OSD
Other features	ENERGY STAR; 2 stage DPMS; VESA DDC Plug and Play

ORDERING INFORMATION: TOUCHMONITOR AND ACCESSORIES

Touch Technology	Touch Interface	Elo Part Number
iTouch	Serial	D07427-000

- Users should independently evaluate the suitability of the product for their application.
- All prices, models, and availability subject to change without notice.
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- For Product Agency Certifications refer to our Web site.

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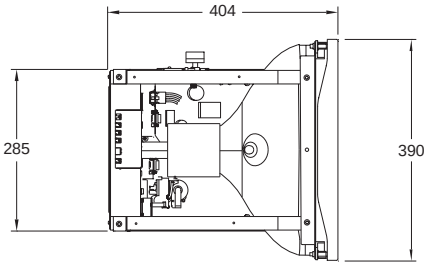
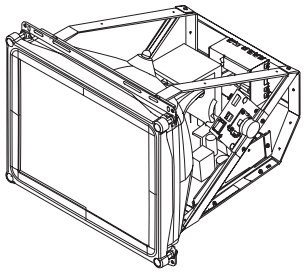
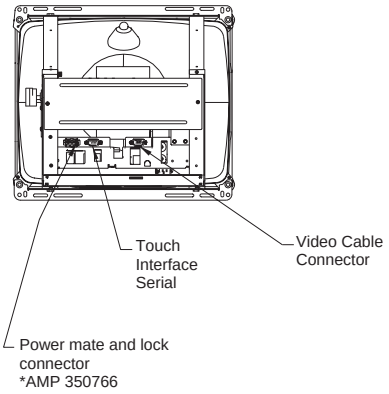
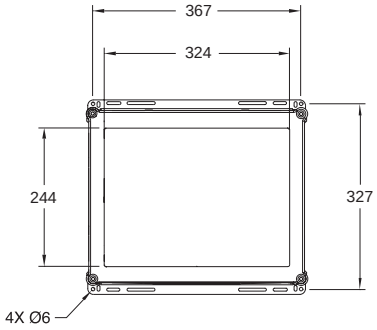
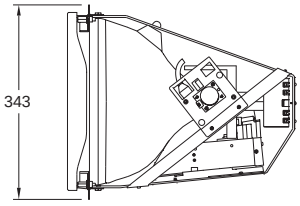
3000 Series
17" True Flat CRT
Touchmonitor

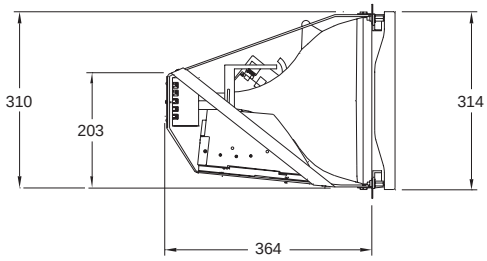


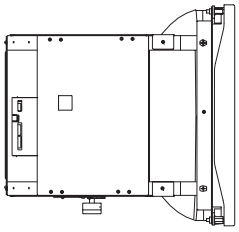












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Touchmonitors

1987C

Open Frame

3000 Series
19" CRT Touchmonitor

SPECIFICATIONS

Model	1987C
Case/Bezel color	Metal open-frame, black
Display	Size: 19"; type: FST CRT
Image size	Horizontal: 14.2" (360 mm); vertical: 10.6" (270 mm)
Monitor dimensions	Width: 16.7" (424 mm); height: 14.8" (374.7 mm); depth: 17.3" (440 mm)
Dimensional drawing number	MS500215 (available on elotouch.com)
Highest recommended resolution	1024 x 768 at 85 Hz
Resolution presets	1024 x 768 at 85 Hz (VESA); 800 x 600 at 85 Hz (VESA); 640 x 480 at 60 Hz (VGA)
Dot pitch, nominal	0.25 mm
Video bandwidth	100 MHz (–3 db)
Scanning frequency	Horizontal: 30–70 kHz; vertical: 50–160 Hz
Input video format	Analog
Input video signal connector	Mini D-Sub 15-Pin (female)
Input power connector	Universal MATE-N-LOK, AMP P/N 350766
Power supply	100–240 VAC, 50–60 Hz
Power dissipation	75 W typical, 85 W max.
Temperature	Operating 5°C to 55°C; storage –20°C to 65°C
Humidity	Operating 10% to 80%; noncondensing
Weight (approx.)	Actual 39.2 lb (17.8 kg); shipping 48.0 lb (21.8 kg)
Agency approvals	FCC/ICES-03 Class B, UL/cUL recognized component, TÜV CE, VCCI, C-Tick, MPR II, DHHS, Demko
On-screen display (OSD)	Multilingual OSD
Other features	ENERGY STAR; VESA DPMS; VESA DDC 1/2 B Plug and Play

ORDERING INFORMATION: TOUCHMONITOR AND ACCESSORIES

Touch Technology	Touch Interface	Elo Part Number
iTouch	Serial	E03176-000
iTouch	USB	E10509-000

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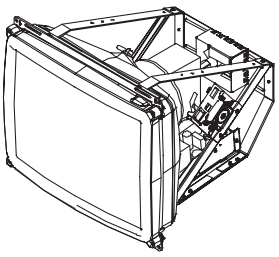
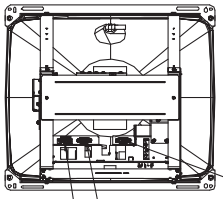
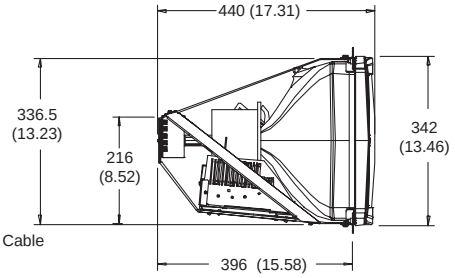
3000 Series
19" CRT Touchmonitor





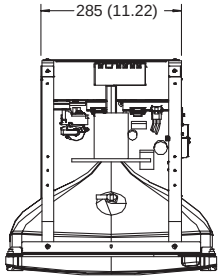


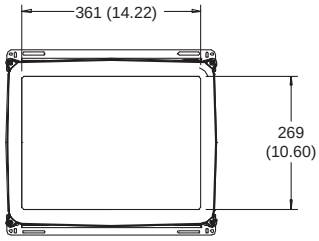
Video Cable
VGA

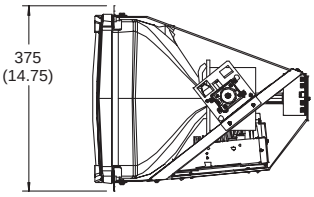
Touch Cable
Connector
Serial or USB

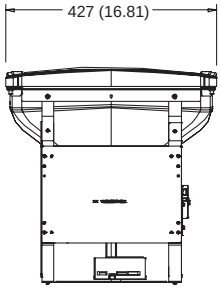
Power Mate & Lock
Connector
*AMP 350766

*Use AMP 350767 Mating
Mate & Lock Connector.









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Touchmonitors

1988C

Open Frame

3000 Series 19" True Flat CRT Touchmonitor

SPECIFICATIONS

Model	1988C
Case/Bezel color	Metal open-frame, black
Display	Size: 19"; type: True flat
Image size	Horizontal: 14.2" (360 mm); vertical: 10.6" (270 mm)
Monitor dimensions	Width: 17.0" (431 mm); height: 14.8" (375 mm); depth: 17.6" (446 mm)
Dimensional drawing number	MS500314 (available on elotouch.com)
Highest recommended resolution	1024 x 768 at 85 Hz
Resolution presets	1024 x 768 at 85 Hz; 800 x 600 at 85 Hz; 640 x 480 at 60 Hz
Dot pitch, nominal	0.25 mm
Video bandwidth	100 MHz
Scanning frequency	Horizontal: 30–70 kHz; vertical: 50–160 Hz
Input video format	Analog (no proprietary video card needed)
Input video signal connector	Mini D-Sub 15-Pin (female)
Input power connector	Universal MATE-N-LOK, AMP P/N 350766
Power supply	100–240 VAC, 50–60 Hz
Power dissipation	75 W typical, 85 W max.
Temperature	Operating 5°C to 55°C; storage –20°C to 65°C
Humidity	Operating 10% to 80%; storage 5% to 95%; noncondensing
Weight (approx.)	Actual 43 lb (19.5 kg); shipping 50.0 lb (22.7 kg)
Agency approvals	FCC/ICES-03 Class B, UL/cUL recognized component, TÜV-Bauart, CE, VCCI, C-Tick, MPR II, DHHS, Demko
On-screen display (OSD)	Multilingual OSD
Other features	ENERGY STAR; 2 stage DPMS; VESA DDC 1/2 B Plug and Play

ORDERING INFORMATION: TOUCHMONITOR AND ACCESSORIES

Touch Technology	Touch Interface	Elo Part Number
iTouch	Serial	E96061-000
iTouch	USB	E54729-000

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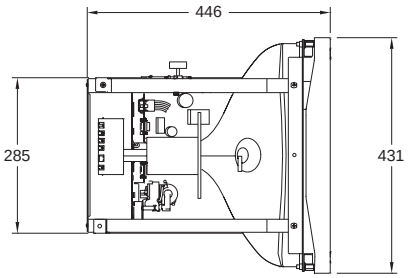
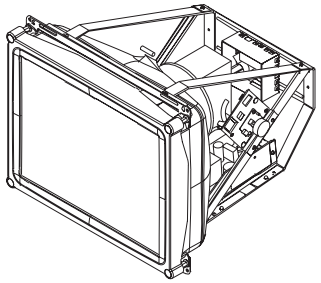
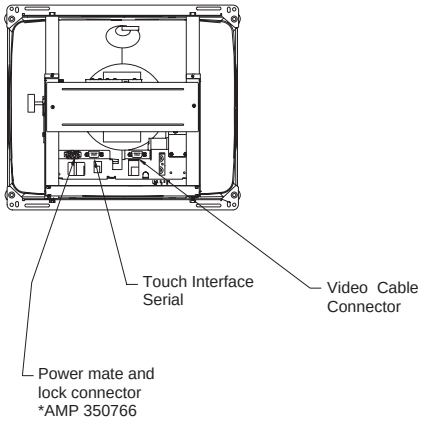
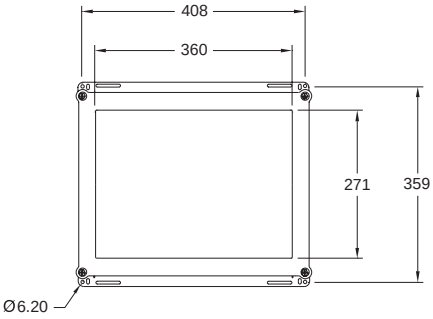
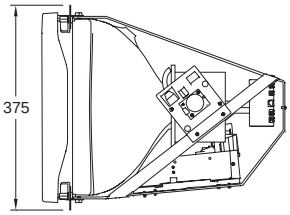
3000 Series
19" True Flat CRT
Touchmonitor

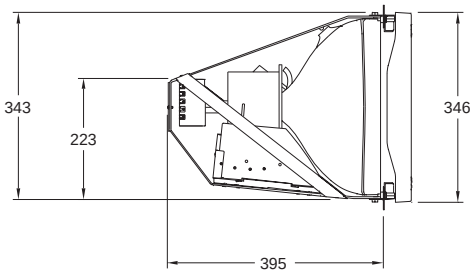


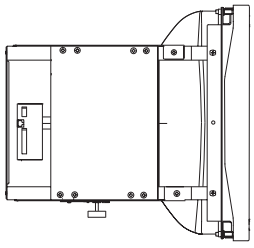












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Touchmonitors

2187C

Open Frame

3000 Series
21" CRT Touchmonitor

SPECIFICATIONS

Model	2187C
Case/Bezel color	Metal open-frame, black plastic minibezel
Display	Size: 21"; type: FST CRT
Image size	Horizontal: 14.96" (380 mm); vertical: 11.22" (285 mm)
Monitor dimensions	Width: 18.58" (472 mm); height: 16.22" (412 mm); depth: 19.45" (494 mm)
Dimensional drawing number	MS500342 (available on elotouch.com)
Highest recommended resolution	1024 x 768 at 85 Hz (VESA)
Resolution presets	1024 x 768 at 85 Hz; 800 x 600 at 85 Hz; 640 x 480 at 60 Hz; 640 x 400 at 70 Hz; 640 x 350 at 70 Hz
Dot pitch, nominal	0.25 mm
Video bandwidth	100 MHz
Scanning frequency	Horizontal: 30–70 kHz; vertical: 50–120 Hz
Input video format	Analog (no proprietary video card needed)
Input video signal connector	Mini D-Sub 15-Pin (female)
Input power connector	Universal MATE-N-LOK, AMP P/N 350766
Power supply	100–240 VAC, 50–60 Hz
Power dissipation	80 W typical, 90 W max.
Temperature	Operating: 5°C to 55°C; storage: –20°C to 65°C
Humidity	Operating: 10% to 80%; storage: 5% to 95%; noncondensing
Weight (approx.)	Actual: 55 lb (25.0 kg); shipping: 66 lb (30.0 kg)
Agency approvals	FCC/ICES-03 Class B, UL/cUL recognized component, TÜV-Bauart, CB (all members), CE, VCCI, C-Tick, Nevada SR 14, MPR II, DHHS
On-screen display (OSD)	Multilingual OSD
Other features	ENERGY STAR; 2 stage DPMS; VESA DDC Plug and Play

ORDERING INFORMATION: TOUCHMONITOR AND ACCESSORIES

Touch Technology	Touch Interface	Elo Part Number
iTouch	Serial	C21274-000

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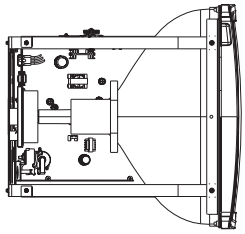
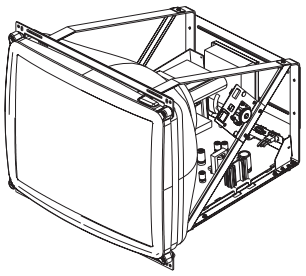
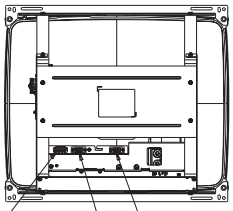
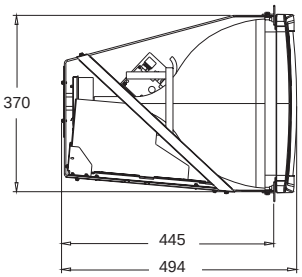
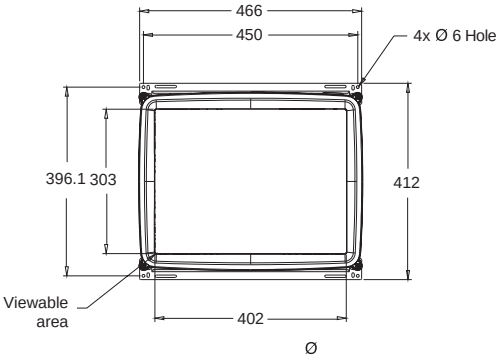
3000 Series
21" CRT Touchmonitor

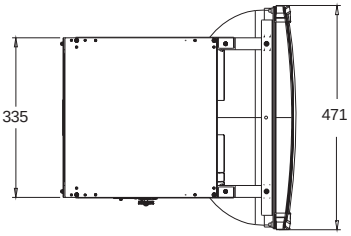


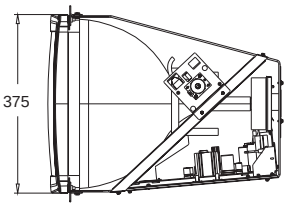




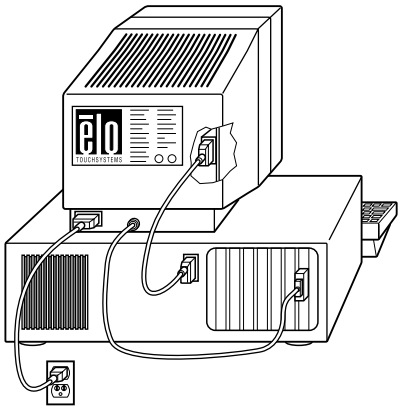


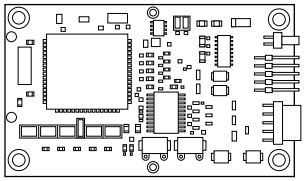




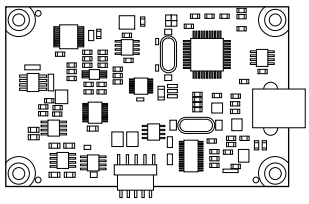


Cables, Controllers, Drivers, and Accessories





Serial controller



USB controller

AccuTouch/IntelliTouch Internal Serial or USB touchmonitors

For PC-based computers, cables are included with purchase of the touchmonitor.

For Apple Legacy (pre-G3) computers, additional cables must be purchased separately:

632851-000 VGA to Macintosh video
084037-000 DB-9 to 8-pin mini-DIN

AccuTouch Serial and USB Controller

Order the AccuTouch serial controller card: 055165-000
Options:
734849-000 Internal mounting kit
742067-000 AC to DC power supply kit

Order the AccuTouch USB controller card: 608244-000
Options:
310900-000 Cable pack

IntelliTouch Serial and USB Controller

Order the IntelliTouch serial controller card: 351077-000
Options:
750345-000 Cable pack
934201-000 Mounting kit
742067-000 AC to DC power supply kit (for both controllers)

Order the IntelliTouch USB controller card: 714259-000
Options:
748578-000 Cable pack

MonitorMouse touchscreen drivers

Elo's industry-leading touchscreen driver software is included with the hardware. When ordering, please specify your operating system(s). The latest drivers and manuals are free for Elo customers and may be downloaded from our Web site: www.elotouch.com.

ORDERING INFORMATION

Driver Software	Elo Part Number
Elo TouchTools CD-ROM (includes all software drivers, manuals, and documentation)	450261-000

Technical Manuals
Up to 24 hardcopy manuals are provided free upon request with hardware orders. Electronic copies and manuals are downloadable from www.elotouch.com.

Stylus	Elo Part Number
IntelliTouch stylus	683550-000

tyco Electronics

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Elo's TouchTools MonitorMice

Elo's MonitorMice software provides a multi-user touch interface from one PC running most Windows-based operating systems.

MonitorMice software

Elo TouchSystems' MonitorMice software provides a multi-user touch interface from a multi-user operating system, for most Windows-based operating systems. System costs are significantly reduced for a range of markets and applications:

- Point-of-information kiosks
- Process control
- Financial
- Education and training
- Point-of-sale terminals

Using Elo's patented MonitorMice software and multiple video sources, you can spread one Windows desktop across two or more monitors and have a separate application running in a window on each monitor. The end result can be as many as four independent, touch-activated applications running simultaneously on one PC under most Windows-based operating systems.

The multi-user software is an extension of Elo's MonitorMouse line that allows a touchscreen to work like a mouse on each touchmonitor. Previously, each touchscreen required its own PC.

Multi-user mode

In this mode the screen responds to a touch as it would to a single mouse click. Simultaneous touches on multiple monitors are recognized and processed without perceptible delay.

A single PC running Windows on multiple displays can be used in many applications:

- Kiosk "clusters" at airports, trade shows, and cyber cafés, to allow several people to use the kiosk software at the same time
- Factories, to operate and control manufacturing processes from multiple locations
- Employment offices, to provide simultaneous job-search capabilities from several stations
- Fast-food restaurants, to allow order-taking at multiple stations

Single-user mode

Drag-and-drop, double-clicking, and pull-down menu functions can be activated by touch when MonitorMice software is operated in single-user mode. For example:

- A financial trader working with three or four monitors can touch an item on one screen, then touch a second screen to which the item should be moved. When the finger is lifted from the first screen, the object automatically moves to the second.
- In a doctor's office, a single computer can drive monitors located in different patient rooms. The doctor can pull up patient records, billing data, and medical histories from any of these locations. Without MonitorMice, a computer with a network connection would have been required in each room.

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Glossary of "Touch" Terms and Related Technical Terminology

active matrix
See LCD.

actual image size
The size of the display on the screen is dependent upon the signals provided by the video card. The displayable diagonal measurement can vary, depending on how the graphics mode is generated and how the monitor responds to the characteristics of the video signal.

aperture grille
Aperture grille technology employs a series of thin, closely spaced vertical wires to isolate pixels horizontally. The pixels are separated vertically by the nature of the scan lines (beams) used to compose the image.

backlight
A technique used to make LCDs easier to read.

bandwidth
A measure of the display performance of a monitor. Expressed in MHz, bandwidth is the number of dots that can be displayed in a line per second. More strictly, it is the frequency response of the system between points where the signal level falls to a specified percentage of its maximum value (usually 50% or 75%). In principle, the greater the bandwidth, the better the monitor—although the quality of the picture tube is often the limiting factor affecting display performance, and for many standard monitors there is little point in increasing the bandwidth beyond a certain point. Typical bandwidths for monitors (Winter 2004) are as follows:

VGA monitors: 18 MHz
FGA+ monitors: 35 MHz
CAD monitors: 100 MHz

Bauart
Component products can be Bauart certified by TÜV for expected safety concerns, meaning evaluation to German and European Union standards for building into other equipment. Typical component products are touchscreens, controllers, and kiosk or frame touchmonitors.

brightness
Light output measured at the faceplate of the CRT; typically measured in footlamberts (Fl). A minimum brightness level of 20 Fl when viewing a full-sized page is considered acceptable.

CD-ROM
Compact Disc Read-Only Memory. A CD-ROM is any compact disc that contains computer data. "ROM" means that you cannot save information onto these discs. These discs can hold huge amounts of data (up to 640 megabytes). If there is a large amount of data on a CD-ROM, then it is usually impractical to copy the data onto the hard disk; in this case, you must insert the disc into the drive whenever you want to use the data. CD-ROM may also refer to the drive used to read these discs.

CE
The CE (Conformite Europeene) marking on end products indicates compliance with all applicable directives. For information technology equipment (ITE) this typically means Low Voltage Directive 73/23/EEC (LVD), and the EMC Directive 89/336/EEC. Typical end products are desktop touchmonitors.

Components typically do not carry the European Union's CE marking. Properly applied, they will comply with the LVD and EMC Directives. Typical component products are touchscreens, controllers, and kiosk touchmonitors. Refer to the product Declaration of Conformity (DOC) for test levels.

contrast
The ratio between the maximum and the minimum brightness of the display.

contrast control
A manual gain control for a monitor, affecting both luminance and contrast.

C-Tick
A trademark registered to the Australian Communications Authority, indicating compliance with the electromagnetic radiation emissions limits of Australia and New Zealand.

CRT
Cathode ray tube. Also known as picture tube or screen. A picture tube in a TV is also a CRT.

DDC
Display Data Channel. A VESA standard for communication between a monitor and a video adapter. Using DDC, a monitor can inform the video card about its properties, such as maximum resolution and color depth. The video card can then use this information to ensure that the user is presented with valid options for configuring the display.

DDC2B
VESA standard bidirectional digital data channel between the display and the host. The host initiates data transfer by reading the EDID from a memory location in the display. *See also* **DDC** *and* **EDID.**

digital control
Microprocessor-based digital control of picture parameters and video modes for complete control of picture settings and modes and instant recall of all settings at the push of a button. This very advanced feature allows the user to switch to any required mode at any moment without having to spend time readjusting the picture.

dot pitch
The distance between one phosphor dot (i.e., red, green, or blue) and the nearest phosphor dot of the same color in the line above or below.

DPMS
Display Power Management Signaling. A VESA standard that ensures that monitor and video card manufacturers produce power-saving products that work together.

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drive
Any data storage device including CD-ROM drive, floppy disk drive, and hard disk drive.

EDID
Extended Display Identification Data. A VESA standard for data structures containing the display identity and the basic display specifications.

electronic radiation standards
International standards established to limit electromagnetic emissions from monitors. There are currently two important standards, both derived from regulations originally established by the Swedish authorities. *See also* **MPR II** *and* **TCO.**

EMC
Electromagnetic compatibility. EMC requirements stipulate that a device shall not cause interference within itself or in other devices, or be susceptible to interference from other devices. The European Union was the first governing body to establish laws (CE) regarding immunity of devices from EMI. *See also* **CE, EMI,** *and* **RFI.**

EMI
Electromagnetic interference. This interference in the operation of a device is caused by incompatibility with ambient signals. Common sources of EMI include transmitters and receivers (radio, TV, cell phone), power mains (lightning, surges, brownouts), appliances, computer oscillators, and electrostatics. Many countries have established laws (such as FCC and CE) governing EMI source limits. *See also* **CE, FCC, EMC,** *and* **RFI.**

ENERGY STAR®
A voluntary partnership between the U.S. Department of Energy, the U.S. Environmental Protection Agency, product manufacturers, local utilities, and retailers. ENERGY STAR labeled products use less energy than other products. Partners help promote energy-efficient products by labeling with the ENERGY STAR logo and educating consumers about the benefits of energy efficiency.

FCC Class A
A marking FOR OFFICE USE means the design has been tested for compliance with the U.S. Federal Communications Commission's (FCC) Part 15 Class A RF emissions limits, and is suitable for use in nonresidential settings. Industry Canada's RF emissions limits are identical to the FCC's. *See also* **IC Class A.**

FCC Class B
A marking FOR HOME OR OFFICE USE means the design has been tested for compliance with the U.S. Federal Communications Commission's (FCC) Part 15 Class B RF emissions limits, and is suitable for use in residential or nonresidential settings. Industry Canada's RF emissions limits are identical to FCC's. *See also* **IC Class B.**

flat panel display
See LCD.

flat square screen
A screen that is flatter and more square than the conventional CRT screen. The flatter outline reduces picture distortion and ambient reflections, and allows better use to be made of the screen area.

flicker
Condition of the display caused by the mismatch of vertical and horizontal refresh rates, when a phosphor's illumination begins to decay prior to being refreshed. The resulting flicker is particularly detectable with peripheral vision. Flicker can be eliminated by increasing the refresh rate to a value at or above 70 Hz.

frequently asked question(s) (FAQ)
A list of questions/answers provided by companies related to their products or Web site.

GS
A German certification, Geprufte Sicherheit ("tested safety"). End products can be GS-certified by TUV for expected safety concerns, meaning they have been evaluated and have met German standards. Typical end products are desktop touchmonitors.

hard disk
A storage device inside a computer, generally designated as the C: drive. It cannot be seen without opening up the computer; however, usually a light on the front of the computer shows when the hard disk is being accessed.

hertz
The unit of frequency named after the physicist Heinrich Hertz (1857–1894). One hertz (Hz) is equal to one cycle/second.

horizontal frequency
The time it takes to scan each of the horizontal lines that make up the display, measured in kilohertz (kHz). Horizontal frequency is directly related to the vertical refresh rate, so that the greater the number of vertical lines, the higher the horizontal frequency required.

horizontal scanning frequency
The number of video lines written on the screen every second (from left to right); also called line frequency and expressed in kHz. The higher the horizontal scanning frequency, the higher the resolution and/or the refresh rate, which produces a more stable image, helping to reduce user eyestrain and fatigue.

I2C bus: access bus standard
A standard-protocol two-wire (clock and data) serial data bus.

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Glossary of "Touch" Terms and Related Technical Terminology

IC Class A
A Class A compliance statement means the design has been tested for compliance with Industry Canada's ICES 03 Class A RF emissions limits and is suitable for use in non-residential settings. Industry Canada's RF emissions limits are identical to the FCC's. *See also* **FCC Class A.**

IC Class B
A Class B compliance statement means the design has been tested for compliance with Industry Canada's ICES 03 Class B RF emissions limits, and is suitable for use in residential or nonresidential settings. Industry Canada's RF emissions limits are identical to the FCC's. *See also* **FCC Class B.**

interlaced scanning mode
A scheme that takes two passes to paint an on-screen image, painting every other line on the first pass and sequentially filling in the rest of the line on the second pass. This scheme usually causes flicker. *See also* **noninterlaced scanning mode.**

Invar shadow mask
A special type of shadow mask, made out of Invar and alloy, that is able to withstand the high temperature generated by the electron beam. The Invar shadow mask allows the CRT to generate a brighter image than with the conventional shadow mask. An advanced Invar shadow mask improves brightness by 40 percent over the standard.

ISO 9241 part 3
An ergonomic standard that covers hardware, software, workplace, and environment. It addresses the actual application at the workplace. The objective of part 3 is to ensure that the CRT display shall be legible, readable, and comfortable in use.

LCD
Liquid crystal display. LCDs use two layers of polarizing material separated by a liquid crystal solution. An electric current passed through the liquid causes the crystals to align so that the light cannot pass through them. Each crystal, controlled individually, acts like a shutter. Color LCDs use two basic techniques for producing color: Passive matrix is the less expensive, and active matrix, also called Thin Film Transistor (TFT), provides a sharper image.

linearity
The degree to which the actual location of a pixel on the screen corresponds with its intended location. Nonlinearity causes screen images to be more distorted in one area of the screen than in another. This is sometimes caused by poor voltage regulation in the monitor's electronics.

magnetic field effects (MFE)
A monitor is affected by magnetic fields. When a screen develops wrong colors in certain areas, or the picture becomes distorted, check what is located near the monitor. A steel cabinet, desk, bench, or steel girder imbedded in a wall or ceiling could cause distortion of the picture tube's electron beams due to an impeding magnetic field. Moving the monitor approximately 3 feet away from the suspected source can clear the problem, as can degaussing it. Speakers should also be considered as a possible source of distortion, since they may also create a magnetic field when powered on.

memory
In technical references, the word memory used by itself refers to random access memory (RAM).

modem
A device that allows one computer to communicate with another over phone lines. It can be inside a computer (internal) or external. All modern modems are also capable of sending and receiving faxes with the use of fax software.

MPR II
A set of Swedish safety standards that covers the levels of magnetic and electrical fields in both VLF and ELF ranges. The Swedish National Board for Measurement and Testing (SWEDAC) requires that products sold in Sweden comply with MPR II. To measure emissions, a sophisticated test that screens out background radiation must be in place. Since distance to the CRT and orientation of the measuring device affect measurement, precise placement of the measuring device is essential and difficult to repeat. In addition, the actual image displayed can have an impact on emissions, so that a given set of measurements may not predict the emissions a user would actually encounter. It is worth noting that there are no scientific studies that conclude that measurements above MPR II levels are hazardous. *See also* **TCO.**

noninterlaced (NI) scanning mode
A scheme for assembling an image on the screen by painting all the lines in one pass, then painting an entirely new frame. Noninterlaced scanning mode reduces flicker. *See also* **interlaced scanning mode.**

operating system (OS)
The program that runs a computer. The operating system takes care of managing files and folders (such as renaming, moving, copying, and deleting files). It also provides the ability to start the other software you have on your computer. Operating systems also usually include many programs, such as a text editor, that are almost essential to have on every computer.

opto-electronics
Infrared-light-emitting diodes (LEDs) and photo transistors used for touch-sensing in infrared (IR) touchscreens.

opto-matrix frame
Used in infrared (IR) touchscreens. The touch frame contains two opposite rows of IR-light-emitting diodes (LEDs) and photo transistors, collectively referred to as opto-electronics, concealed behind an IR-transparent bezel.

passive matrix
See **LCD.**

phosphor
Chemical compound that emits light when excited by electrons.

pixel
Abbreviation for picture element, the smallest element of the picture that can be displayed on the screen. Each pixel contains one red, one blue, and one green phosphor.

PDF file (Adobe® Portable Document Format)
A universal file format that preserves the fonts, formatting, colors, and graphics of any source document, regardless of the application and platform used to create it. PDF is the open de facto standard for distributing formatted documents over the Internet. PDF files are compact and can be shared, viewed, navigated, and printed using free Adobe Acrobat® Reader® software, downloadable from http://www.adobe.com. Documents can be converted into PDF files with Adobe Acrobat software.

point of information (POI)
The location at a facility where visitors seek information.

point of sale (POS)
The location at a merchant's facility where customers make purchases.

POS terminal
A device placed in a merchant location, connected to the bank's system or authorization service provider via telephone lines, and designed to authorize, record, and forward data for each sale by electronic means.

RAM
Random access memory. In technical references, this is often simply referred to as memory. A computer's memory is not like its hard disk, which is permanent storage. Memory can only store information while the computer is on; however, it is much faster than a hard disk. A hard disk is a mechanical device, but memory is stored on computer chips, and information can be accessed from anywhere on the chip almost instantly.

refresh rate
Number of times the screen can be redrawn per second—an ergonomic issue directly related to long-term ease of use. A higher refresh rate means a less "flickering" display, resulting in less eyestrain and fatigue. Bandwidth, horizontal scanning rate, and vertical scanning rate work together to determine both the resolution and the refresh rate.

resolution
The number of pixels that can be displayed on a screen, specified as the number of pixels in a horizontal line multiplied by the number of horizontal lines. For example, a resolution of 800 x 600 is 800 pixels running horizontally and 600 pixels running vertically—a total of 480,000 pixels.

RF
Radio frequency. It consists of electromagnetic waves at a frequency between audio and infrared, used primarily in radio and television transmission.

RFI
Radio frequency interference. This interference in the operation of a device is caused by incompatibility with ambient RF signals. *See also* **EMC, EMI,** *and* **RF.**

RS-232 port
A standardized serial port for connecting a computer to peripheral equipment, such as a printer, mouse, scanner, modem, or touchscreen.

screen size versus viewable image size
Screen size is the total size, measured diagonally, of the monitor screen before it is placed in the monitor cabinet. Viewable image size is the size, measured diagonally, of the monitor screen that can be viewed once it is in the cabinet.

stripe pitch
The equivalent of dot pitch on aperture grille tubes—the distance between one stripe and the next one of the same color, expressed in millimeters.

TCO95 and TCO99
A standard set by the Swedish Tjänstemännens Central Organization (TCO) in 1991. It is even more stringent than MPR II, especially for alternating electric fields (AEF). Not only are the permitted field levels reduced compared with MPR II, but the measuring distance is reduced as well. Ergonomic and ecologic requirements are included for TCO95. For TCO99, it is expanded to include more ergonomic and ecologic requirements. *See also* **MPR II.**

TFT
Thin film transistor. *See* **LCD.**

tilt
The angle of the CRT with respect to the horizontal-mounting bracket of the chassis. Tilt can vary, depending on the monitor's orientation to the earth's magnetic poles. Monitor manufacturers orient and align their products in the eastern direction. When the monitor is facing a north/south direction, there may be a slight rotation of the image.

UL/cUL Listed
End products can be Listed by Underwriters Laboratories for expected safety concerns. The CNL/USL designation idesignation in the certification indicates evaluation to U.S. and Canadian standards. Typical end products are touchscreens, controllers, and kiosk touchmonitors.

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Glossary of "Touch" Terms and Related Technical Terminology

UR/cUR Recognized components
Component products can be Recognized by Underwriters Laboratories for expected safety concerns. The CNR/USR designation in the certification indicates evaluation to U.S. and Canadian standards. Typical end products are touchscreens, controllers, and kiosk touchmonitors.

USB
Universal Serial Bus, an external bus standard that supports data transfer rates of 12 Mbps (12 million bits per second). A single USB port can be used to connect up to 127 peripheral devices, such as mice, modems, and keyboards. USB also supports Plug and Play installation.

user-friendly
Describes an interface—Web site, equipment, process—that people find easy to use, or intuitive.

VCCI
A Japanese standard for RF emissions developed by the Voluntary Control Council for Interference. The VCCI marking on an end product indicates it has been tested for compliance with the VCCI program.

vertical frequency
The number of times per second that the monitor can draw all the lines on the entire screen. A higher vertical frequency or refresh rate will reduce flicker, helping to reduce user eyestrain and fatigue.

vertical scanning frequency
In interlaced mode, the number of fields written to the screen every second, expressed in Hz. In noninterlaced mode, it is the number of frames (complete pictures) written to the screen every second (also known as **refresh rate**). A higher vertical frequency or refresh rate will reduce flicker, helping to reduce user eyestrain and fatigue.

VESA
Video Electronic Standards Association, a consortium of manufacturers formed to establish and maintain industry-wide standards for video cards and monitors. VESA was instrumental in the introduction of the Super VGA and Extended VGA video graphics standards with a refresh rate of 70 Hz, minimizing flicker and helping to reduce user eyestrain and fatigue. *See also* **video graphics adapters.**

video bandwidth
See **bandwidth.**

video graphics adapter (VGA)
A card with character generator and an array of microprocessors that translate bit information from the computer into displayable video signals for the monitor. These cards comply with various standards that determine the nature of the quality of the display.

VGA, introduced in 1987, was the first analog card. It offered still higher resolution than enhanced graphics adapter (EGA)—640 x 480 pixels for graphics and 720 x 400 pixels for text—and a color palette of 256 colors. VGA could also emulate EGA and color/graphics adapter (CGA).

Super VGA (SVGA), devised by VESA in 1989, offers a resolution of 800 x 600 pixels.

XGA-8514A, introduced by IBM in 1990, offers a resolution of 1024 x 768 pixels (interlaced) and a color palette of 256 colors.

Extended VGA (XVGA), introduced by VESA in 1991, offers a top resolution of 1024 x 768 pixels (noninterlaced) and a refresh rate significantly higher than that of IBM's XGA-8514A.

High-end graphics adapters, introduced in the late 1990s for professional workstations, offer top resolutions from 1280 x 1024 to 1600 x 1280, horizontal line frequencies up to 90 kHz, and bandwidths up to 200 MHz.

video signal
The output from the video graphics adapter incorporating the red (R), green (G), and blue (B) signals and the luminance signal, or combinations of these signals, that pass to the video input of the monitor.

viewable image size (VIS)
Actual maximum viewable image size is dependent upon the size of the plastic or bezel around the CRT. Typically, the maximum possible for a "17-inch" monitor is actually 15.75 inches, plus or minus 0.25 inch at the ends of diagonal measurement. VIS differs from diagonal linear measurement.

VRAM/video memory
Random access memory for storing video information. VRAM is a special-purpose RAM with two data paths for access rather than the one path of a conventional RAM. The two paths let the VRAM handle two tasks simultaneously: display refresh and process access. VRAM does not force the system to wait for one function to finish before starting another, so it permits faster operation for the video subsystem.

Elo Warranty, Trademark, and Copyright Information

Except as otherwise stated herein or in an order acknowledgment delivered to Buyer, Seller warrants to Buyer that Product shall be free of defects in materials and workmanship. See relevant specification sheet for touchmonitors.

Seller makes no warranty regarding the model life of monitors. Seller's suppliers may at any time and from time to time make changes in the monitors delivered as Products or components.

Buyer shall notify Seller in writing promptly (and in no case later than thirty [30] days after discovery) of the failure of any Product to conform to the warranty set forth above; shall describe in commercially reasonable detail in such notice the symptoms associated with such failure; and shall provide to Seller the opportunity to inspect such Products as installed, if possible. The notice must be received by Seller during the Warranty Period for such product, unless otherwise directed in writing by the Seller. Within thirty (30) days after submitting such notice, Buyer shall package the allegedly defective Product in its original shipping carton(s) or a functional equivalent and shall ship to Seller at Buyer's expense and risk.

Within a reasonable time after receipt of the allegedly defective Product and verification by Seller that the Product fails to meet the warranty set forth above, Seller shall correct such failure by, at Seller's options, either (i) modifying or repairing the Product or (ii) replacing the Product. Such modification, repair, or replacement and the return shipment of the Product with minimum insurance to Buyer shall be at Seller's expense. Buyer shall bear the risk of loss or damage in transit, and may insure the Product. Buyer shall reimburse Seller for transportation cost incurred for Product returned but not found by Seller to be defective. Modification or repair of Products may, at Seller's option, take place either at Seller's facilities or at Buyer's premises. If Seller is unable to modify, repair, or replace a Product to conform to the warranty set forth above, then Seller shall, at Seller's option, either refund to Buyer or credit to Buyer's account the purchase price of the Product less depreciation calculated on a straight-line basis over Seller's stated Warranty Period. THESE REMEDIES SHALL BE THE BUYER'S EXCLUSIVE REMEDIES FOR BREACH OF WARRANTY. EXCEPT FOR THE EXPRESS WARRANTY SET FORTH ABOVE, SELLER GRANTS NO OTHER WARRANTIES, EXPRESS OR IMPLIED BY STATUTE OR OTHERWISE, REGARDING THE PRODUCTS, THEIR FITNESS FOR ANY PURPOSE, THEIR QUALITY, THEIR MERCHANTABILITY, THEIR NONINFRINGEMENT, OR OTHERWISE. NO EMPLOYEE OF SELLER OR ANY OTHER PARTY IS AUTHORIZED TO MAKE ANY WARRANTY FOR THE GOODS OTHER THAN THE WARRANTY SET FORTH HEREIN. SELLER'S LIABILITY UNDER THE WARRANTY SHALL BE LIMITED TO A REFUND OF THE PURCHASE PRICE OF THE PRODUCT. IN NO EVENT SHALL SELLER BE LIABLE FOR THE COST OF PROCUREMENT OR INSTALLATION OF SUBSTITUTE GOODS BY BUYER OR FOR ANY SPECIAL, CONSEQUENTIAL, INDIRECT, OR INCIDENTAL DAMAGES.

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AccuTouch products are covered by one or more of the following patents: 5,220,136; 4,220,815; 4,661,655; 4,687,885; 4,731,508; 4,822,957; 5,045,644; 4,659,873; 4,777,328; 4,797,514; 4,933,660.

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About Tyco Electronics

Tyco Electronics is one of the major business units of Tyco International Ltd. Headquartered in Harrisburg, Pennsylvania, USA, Tyco Electronics is the world's largest passive electronic components manufacturer, and a world leader in cutting-edge wireless technologies, fiber-optic active components, and complete power systems. The company has facilities located in 56 countries serving customers in the aerospace, automotive, computer, communications, consumer electronics, industrial, and power industries. Tyco Electronics provides advanced technology products from over thirty well-known and respected product brands, including Agastat, Alcoswitch, AMP, AMP Netconnect, Buchanan, CoEv, Critchley, Elcon, Elo TouchSystems, HTS, M/A-COM, Madison Cable, OEG, Potter & Brumfield, Raychem, Schrack, Simel, and TDI Batteries.

About Elo TouchSystems

In 1971, Dr. Samuel C. Hurst, the founder of Elo TouchSystems, invented the world's first electronic touchscreen interface. Today, over 30 years later, Elo is still leading the way: Not only are we considered the standard for touch technology, we are also renowned for our wide range of touchscreen systems as well as our dedicated customer service. Whatever the market you're in—retail, industrial, hospitality, gaming, medical, or others—here's why Elo is your best choice when looking for a touchscreen partner:

- **Our customers are convinced.**
  Thousands and thousands of customers around the world choose Elo—we have already installed millions of touchscreen systems. We won these customers not only with our superior product quality but, based on regular customer-satisfaction surveys, because we also continuously improve our standards of professional competence and customer care.
- **We invest heavily in R&D to give you the best choice of touch technologies.**
  We know that our leadership position can only be kept by offering the best touchscreen products possible to a broad cross-section of industries. That's why we invest heavily in R&D. We have over fifty current patents. Moreover, with Tyco Electronics—the world's largest producer of passive electronics components—as our parent, we have considerable technical expertise and resources at our disposal. As a result, we offer the largest selection of touch components, touchmonitors, and development tools available anywhere.
- **We guarantee quality from order to delivery.**
  Whether they work on the manufacturing floor, in customer service, or in the president's office, every employee at Elo TouchSystems participates in a Total Quality Management process. We recognize quality not as a finite goal but as a never-ending improvement process throughout all levels of the organization. Our technologies are the benchmark for quality, durability, and performance. Moreover, we offer same-day shipments on most of our products and provide in-depth technical assistance to customers throughout the world. Elo has been an ISO 9001 certified company since 1994.
- **We care for our people so they care for you.**
  We want our people to care for you and to be motivated, even in this fast-changing business environment. That's why we ensure that values such as teamwork and integrity are part of our daily lives. Secondly, we created an injury-free and participative workplace where individual contributions are recognized. And last but certainly not least, we conduct regular, in-depth sales and marketing trainings at our Elo University. This constant attention to employee training and motivation means our customers get the best possible service.

Elo TouchSystems' corporate headquarters are located in Silicon Valley, California, United States, and include the R&D center.

Elo TouchSystem's European headquarters are located in Kessel-Lo, Belgium, near the city of Leuven, 25 km from Brussels.

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